



- .S5 Slip stream
- .S6 Specifications. Standards
- .S7 Strains and stresses
- .T4 Testing
- .T5 Thrust
- .V4 Vibration
- 707 Details and parts, A-Z
  - e. g. .B6 Blade section and form
  - .B7 Boss
  - .G4 Gear
  - .H8 Hub
  - .P5 Pitch, Adjustable and cont
  - .S6 Spinner
  - .T5 Tipping
- Nuclear powerplants. Nuclear propulsion for
  - Cf. TL704.1, Atomic engines, propeller e
  - TL783.5, Nuclear rockets, propulsion
- 708.A1A-Z Periodicals, societies, etc.
- .A2-Z General works
- .3 By country, A-Z
- 709 Jet propulsion
  - Rocket propulsion, see TL780-785.8
  - .3 Special types, A-Z
    - .R3 Ramjet engines
    - .T8 Turbine-propeller engines
  - .5 Details and parts of jet engines, A-Z
    - e. g. Air intakes or inlets, see
      - .B4 Bearings
      - .C55 Combustion chamber
      - .C57 Control systems
      - .C6 Cooling systems
      - .I5 Intakes or inlets for air
      - Roller bearings, see .B4
      - Supersonic intakes or inlets
      - .T5 Thrust reversers
- Operation of airplanes. Flying
- 710 General works
  - Including textbooks and instruction books
- 711 Special, A-Z
  - o. g. Aerobatics, see .S8
  - .A5 Airspeed
  - .A6 Altitude flying
    - See also TL555
  - .A7 Special altitude flights.
  - .B6 Blind flight
  - .D7 Dropping of cargo
  - .E6 Endurance flights
    - Formation flying, Military
  - .L3 Landing
  - .L6
  - .N5
  - .R

Aeronautics. Aeronautical engineering

Operation of airplanes. Flying

Special, A-Z - Continued

e. g. .S8 Stunt flying. Asrobatics  
.T3 Takseff

Flight training

Flight simulators and trainers

Flying schools. By places, A-Z

Flying machines other than airplanes

Including experimental models, but not toy models

Rotor aircraft

Autogiros

Helicopters

Cf. TL685, Covertiplanss. Vertical takeoff  
aircraft

Periodicals, socistiss, etc.

General works

Operation of holicopters

Special makes. By name of manufacturer, A-Z

Ornithopters. Wingsd flight

Other

Special uses of airplanes

Civil aviation (Tschnology), see TL552

Transportation (Tschology)

Economic aspects, sss HE9761-9900

Spacial flights, A-Z

e. g. .B3 Balbo  
.B5 Blériot  
.B7 The Bremen  
.C5 Chichster  
.C6 Cobham  
.C65 Costes  
.E3 Earhart  
.K5 Kingsford-Smith  
Lindbergh, see TL540.L5  
.P6 Post and Gatty  
.U6 U. S. Army world flight

Cf. TL539-540, Biography

Collected flights overseas, see TL531

Collected flights over an individual country  
TL521-529

Exploration. Mountain climbing

Spacial localities, sss DS486.E8, TL521-532, etc.

Surveying and mapping, sss TA593

Aerial photography, see TR810

Private flying

Sport flying, see GV758

Air mssts

Races, sss GV759

Spacial mssts, A-Z

Use of airplanes in various industries

Agriculture, see S494.5.A3

Crop surveying, crop protection, dusting, sp

Fisheries and whaling

Forestry, fire patrol, see SD387.A3

Mining. Prospecting

Use of airplanes for advertising

Flying exhibits, flying signboard, voices of t

Skywriting. Distribution of litrature

Cf. HF6146.A4, Aircraft as a method of adverti

Use of airplanes for humanitarian purposes. 111

at sea

Cf. RA996.5, Aeronautics and medicine

TL553.8, Search and rescue

Government uses of airplanes

War, see UG630-635, VG90-95

Airmail, see HE6238, HE6496

Airplane industry (Technical aspects)

Including management

Cf. TL671.28, Manufacturing. Factory equipment  
methods

General works

Trade directories, see TL512

Special companies, A-Z

Airways (Routes). Airports and landing fields. A

Including air pilot guides

Cf. HE9797, Air transportation

UG630-635, Military aeronautics

VG90-95, Naval aeronautics

Periodicals, societies, etc.

General works

Specifications and contracts

Special topics, A-Z

.A2 Access to airports

.A6 Areas, danger

.B5 Bird control

.B8 Buildings

Cf. TL725.3.R4, Repair shops

.C3 Camouflage

.C6 Cold weather conditions

.C64 Control towers

.D35 Defense measures. War damage

.D4 Dispatching of airplanes

Cf. TL725.3.T7, Traffic control

.D7 Drainage

.E6 Equipment

Fog control, see TL557.F6

.G6 Government operation and support

.L2 Landing aids (General)

Cf. TL691.L3, Landing lights (Aircraft)

TL696.C75, Control tower display

(Electronic)

TL696.L3, Landing aids (Electronic)

TL725.3.L5, Lighting (Airports)

TL725.3.T7, Air traffic control

.L3 Landing fees

.L5 Lighting

.L6 Location

.M2 Management

.M3 Marking

Meteorology, see TL556-558

.N6 Noise

.P3 Passenger accommodations

.P35 Pavements

.P5 Planning

.P7 Private aircraft

.R3 Radiation safety

.R4 Repair shops

.R8 Runways



Special topics, A-Z - Continued

- .S5 Size
- .S6 Soils
- .T5 Time schedules etc., for making  
Timetables themselves are c  
HE9768 and HE9801-9900, sub  
.A2A-Z and .A9-Z6
- .T7 Traffic control  
Cf. TL696.C75, Control tower  
(Electronic)  
TL696.R25, Radar air tra  
systems
- War damage, see .D35

.Z6 Zoning

Heliports

Special places, see TL726-726.9

Seaplane bases

Special places, see TL726-726.9

Floating airports

Special places, see TL726-726.9

Aircraft carriers

Special countries

General works

General special

e. g. Plymouth to Basra

Transpacific routes, etc.

United States

States, A-W

Cities, A-Z

Other countries

Under each:

.A1A-Z General works

.A2-Z Individual countries,

Each country may b

General works; .

.G4-42, Germany

America (except United States), A-Z

Europe, A-Z

Asia, A-Z

Africa, A-Z

Australia

New Zealand

Pacific islands

Beacons for aircraft

Cf. TL725.3.L5, Airport lighting

Radiobeacons, see TL696.B4

Hangars

General special

e. g. Fire hazards

For airships

For airplanes

Mooring masts

Launching machinery. Catapults, etc.

Apparatus for picking up and deliverin  
during flight

301-339	The house
341-641	Including arrangement, care,
645-840	Nutrition. Foods and food supply
851-885	Cookery
901-946.5	Dining room service
955-953	Hotels, restaurants, etc. Food s
955-985	Taverns, barrooms
1100-1105	Building operation and housekeepi
	Mobile home living

- 1 English
- 2 French
- 3 German
- 4 Other languagee (not A-Z)
- 5 Yearbooks
- 6 Congresses
- Industrial museums, etc., see T179-183
- International exhibitions, see T391-999
- 7 Collected works (nonserial)
- 8 Symbols and abbreviations
- 9 Dictionaries and encyclopedias
- 10 Bilingual and polyglot
- .5 Communication of technical information
- Information centers
- .6 General works
- Special countries
- .63 United States
- .A1A-Z General works
- .A2-Z By region or state, A-Z
- .65 Others, A-Z
- .7 Technical literature
- 11 Language. Technical writing
- .3 Technical correspondence
- .5 Translating
- .8 Technical illustration
- Cf. Q222, Scientific illustration
- T351-385, Mechanical drawing
- Industrial directories
- 12 General and United States
- .5 Other countries, A-Z
- 13 General catalogs. Miscellaneous supplies
- 14 Philosophy. Theory. Classification. Methodology
- Cf. CB478, Technology and civilization
- History
- Including the history of inventions
- 15 General works
- 16 Ancient
- 17 Medieval
- 18 Modern
- 19 19th-20th centuries
- 20 20th century
- Including "technological wonders of the modern world"
- Special countries
- Under T23-31:
- .A1A-Z General works
- .A3-Z Special
- Under each country:
- (1) General works
- (2) Special divisions, A-Z
- (3) Special cities, A-Z
- e. g. T26.A7 Austria
- .A8H8 Hungary
- .A9V5 Vienna
- .G3 Germany
- .G5B5 Berlin
- .G7 Great Britain. England
- .G71 English counties, A-Z
- .G73-74 Ireland
- .G75-76 Scotland
- .G77-78 Wales

- Special countries
  - s. g. T26.G7 Great Britain. England - Co
  - .G8 Special cities, A-Z
  - .G95 Greece
  - .G96 Local, A-Z
- America. United States
  - Special divisions (United States)
    - By region, A-Z
      - s. g. .N4 New England
      - States, A-W
      - Cities, A-Z
  - British America. Canada
  - Latin America. West Indies
  - South America
  - Europe
  - Asia
  - Africa
  - Australia
  - New Zealand
  - Pacific islands
  - Arctic regions
- Primitive peoples, see GN429-434
- Lost arts
- Historical atlases (of progress, invention, etc.)
- Industrial archaeology
  - For local areas, see T21-31
- Biography
  - Including inventors
  - Collective
  - Individual, A-Z
    - Class preferably with special subject in TA-TT
- General works
  - Before 19th century
  - 19th century and later
  - Elementary and popular works. Home educators
  - Juvenile works
  - Pocketbooks. Receipts. Formulas
    - Early to 1800, see T44
  - Addresses, essays, lectures, see T185
  - Technical mensuration
    - Cf. TA329-348, Engineering mathematics
    - TS172, Tolerances
  - Tables
    - Cf. TA151, Engineering (General)
    - TA635, Structural engineering (General)
    - TH151, Building (General)
    - TH435, Estimates, quantities and cost (Build)
  - Dangerous occupations. Industrial accidents
    - General works only. Class special occupations with occupation, s. g. TN311-319, Dangers and accidents
    - Cf. HD7262, Conditions of labor
    - HV675-677, Accident prevention (Philanthropy)
  - Industrial safety. Industrial accident prevention
    - Periodicals, societies, congresses, etc.
    - General works
      - Special measures and appliances, A-Z
        - .H3 Hazardous substances
          - Cf. HD7263-7265.5, Industrial hygiene
        - .L5 Lifting and carrying

Class here works on the solving of management problems concerned with design, improvement, and installation of complex industrial systems of men, materials and equipment, employing the methods of operations research and engineering analysis and design, with stress on optimum use of resources. For applications in special fields, see the field, e. g. RA971, Hospital industrial engineering. For works on the organization and operation of industrial institutions and business enterprises, see HD28-70, Industrial management. For engineering economy, see TA177.4-185; industrial psychology, see HF5548.8; industrial safety, see T55-55.3; labor relations, see HD6961-6976; personnel management, see HF5549-5549.5; production management, see TS155-193; wage and salary administration, see HD4906-5100

- 5.4 Periodicals. Societies. Collections
- .45 Congresses
- .5 Dictionaries and encyclopedias
- .52 Symbols and abbreviations
- .54 Directorios
- .6 History
- Special countries
  - United States
  - .7 General works
  - .72 States, A-W
  - .74 Other American countries, A-Z
  - .75 Europe. By country, A-Z
  - .76 Africa. By country, A-Z
  - .77 Asia. By country, A-Z
- Biography
  - .8 Collective
  - .85 Individual, A-Z
- General works
- .9 Early to 1930
  - Including Taylor's Scientific management
- 6 Treatises
- .23 Pocketbooks, tables, etc.
- .24 General special
- .25 Addresses, essays, lectures
- .3 Industrial engineering as a profession. Industrial
- Management consultants
- .4 Study and teaching
- .42 Research
- .8 Project management
- 7 Applied mathematics. Quantitative methods
  - .2 Problems, exercises, etc.
  - .3 Probability theory
  - .32 Stochastic processes
    - Cf. TS160-163, Inventory control
  - .33 Renewal theory

- Statistical methods
  - Cf. HA40.16, Industrial statistical data
  - TS156-156.6, Quality control
  - TS173, Reliability
  - TS178.5, Line balancing
- Sampling theory
- Experimental design
- Schematic and graphic analysis
- Electronic data processing
  - Cf. HF5548.2, Business data processing
- Operations research. Systems analysis
  - Cf. HD20.5, Economics
  - QA402, Analytical methods connected with problems
- Simulation
  - Monte Carlo methods
- Programming
  - Linear programming
    - Simplex model
    - Allocation method
    - Transportation method
  - Nonlinear programming
    - Quadratic programming
    - Dynamic programming
- Network systems theory
  - Including network analysis
  - Cf. TS157.5-158.4, Scheduling
- Queueing theory. Waiting line problems
- Game theory
  - Cf. HD20.7, Management games
- Decision theory
  - Cf. HD69.D4, Administrative decisions
- Managerial control systems
- Information systems. Management information systems
  - Cf. HF5549.5.C6-62, Communication in personnel management
  - TS158.6, Automatic data collection systems (control)
- Management of information systems
- Production capacity. Manufacturing capacity
  - Cf. HD69.C3, Economics
  - TS176-183.6, Manufacturing engineering
- Productivity. Efficiency
- Standardization
  - Cf. TA368, Standards (Collections, indexes, etc.)
  - By region or country, A-Z
- Mechanization
- Automation
  - Cf. HD45, Economics
  - TA165, Engineering instruments
  - TJ212-225, Automatic control
  - TJ1189, Numerically controlled machines
  - TS156.8, Process control
- Human engineering in industry. Man-machine systems
  - Fatigue aspects of man-machine systems
  - Working environment
    - Cf. TS187, Plant utilities
- Work measurement. Methods engineering
  - Including time and motion study, work study, etc.
  - Periodicals, etc.

- 60.A3-Z General works  
 .2 Work measurement  
 .3 Production standards  
 .35 Labor productivity  
     Cf. HD57, Economics  
 .4 Time study  
 .42 Standard times  
 .45 Allowances  
 .47 Setup time  
 .5 Predetermined motion time systems  
 .52 Methods time measurement  
 .55 Work sampling  
 .6 Methods engineering  
 .7 Motion study  
 .74 Machine assignments  
 .8 Work design. Job design

## TECHNICAL EDUCATION. TECHNICAL SCHOOLS

Cf. LB1594-1599, Industrial training  
     in the elementary school.  
 LC1081, Industrial education (Theory)  
 LC2761, Industrial education of the Negro  
 T175-178, Industrial research  
 TT161-171, Manual training

- 61 Periodicals, societies, etc.  
 62 Congresses  
 65 General works  
 .3 General special  
     e. g. International cooperation  
 .5 Special methods, A-Z  
     .B5 Blackboard drawing  
     .M6 Motion pictures  
     .P7 Programmed instruction  
     .T4 Television  
 History  
 66 General works  
 67 Ancient  
 68 Medieval  
 69 Modern

### Special countries

Each country to be subdivided:

- (1) General works  
 (2) Special divisions, A-Z  
 e. g. 115 Austria  
       116.H8 Hungary  
       123 Germany  
       124.H5 Hesse

For special cities and schools, see T75 and

- 71 America  
 72 North America  
 73 United States  
     .1 New England. North Atlantic States  
     .3 Southern States  
     .5 Central States  
     .7 Western States  
 74 Special states, A-Z  
 75 Special cities, A-Z

Technical education. Technical schools

Special countries - Continued

76-77	Canada and Newfoundland
78-79	Mexico
80-81	Central America
82-83	West Indies
84	South America
86-87	Argentine Republic
88-89	Bolivia
91-92	Brazil
93-94	Chile
95-96	Colombia
97	Ecuador
	Guiana
98	Guyana
99	Surinam
100	French
101	Paraguay
102	Peru
103	Uruguay
104	Venezuela
105	Europe
107	Great Britain. England
.5	Colonies
108	English counties, A-Z
109	Ireland
110	Counties, A-Z
111	Scotland
112	Counties, A-Z
113	Wales
114	Counties, A-Z
115-116	Austria
117-118	Belgium
119-120	Denmark
121-122	France
123-124	Germany
125-126	Greece
127-128	Holland
129-130	Italy
131-132	Norway
133-134	Portugal
135-136	Russia
137-138	Spain
139-140	Sweden
141-142	Switzerland
143-144	Turkey
146	Balkan States, A-Z
147	Other countries, A-Z
149	Asia
151-152	China
153-154	India and Ceylon
155-156	Japan
157-158	Persia
159-160	Asia Minor
161-162	Siberia
163	Other Asian countries, A-Z
165	Africa
166	Special countries, A-Z
167	Australia
168	Special states, A-Z



68.5	New Zealand
69	Pacific islands
70	Special divisions, A-Z
	Special cities and schools
	Including technical departments of universities
	Cf. T1167, Manual training schools
	Under each school the publications may be arranged as follows:
	(1) Act of incorporation, charter, bylaws,
	(2) Catalogs, programs, announcements, etc.
	(3) Annual administrative reports
	(4) Miscellaneous reports. By date
	(49) Miscellaneous printed matter (uncataloged)
	Celebrations, anniversaries, etc., <u>see</u>
	(5) Examinations
	(6) Student publications
	(7) Alumni publications
	(75) Class histories
	History, description, etc.
	(8) Official works. By date
	(9) Nonofficial works. By author, A-Z
	(95) Biography, A-Z
	e. g. Armour institute of technology, T171.A7
	Massachusetts institute of technology,
71	American schools. By name, A-Z
7	Correspondence schools
	Cities of United States, <u>see</u> T75
73	Other cities and schools. By city, A-Z
.2	<u>Technological change</u>
	For economic aspects, <u>see</u> HC79.T4, HC110.T4, et
	Special countries
.4	United States
.5	Others, A-Z
	Inventions, <u>see</u> T212
.8	Technological innovations
74	Technological forecasting
.3	Technology transfer
.5	Technology assessment
	<u>Industrial research. Research and development</u>
	Cf. HD20.3, Economic aspects
	T56.42, Industrial engineering
	TA160-160.6, Engineering
	TS171-171.6, Product design
75	General works
.5	Management. Organization
	Special countries
76	United States
77	Others, A-Z
78	Special research laboratories. By name, A-Z

The following subarrangement may be substituted:

- Official publications
- .A1-4 Serial
- .A5-7 Nonserial
- .A8-Z Other works. By author, A-Z.

General works

Special museums

United States. By city and museum, A-Z

e. g. .N4M8 New York. Museum of Science and

Other countries. By country and city, A-Z

e. g. .D4H4 Hellerup, Denmark. Danmarks teknisk museum

Addressees, essays, lectures

### PATENTS

For patents pertaining to particular

subjects, see the subject, e. g.

TK7850, Patents in electronics

Periodicals, societies, congresses, etc.

International patent conferences. By date

In this class are entered the reports of the following congresses:

Vienna, 1873

Paris, 1878, 1880, 1883

Rome, 1886

Madrid, 1890

Brussels, 1897

Paris, 1900

etc.

History and discussions of international agreements ("conventions") resulting from the conferences

Collected works (nonserial)

Addressees, essays, lectures, see T333

Patent literature

Theory of patents

Inventors and inventions. How to invent

Cf. T15-33, History of inventions

T173.8, Technological innovations

T339, How to patent inventions

### History of patents

General works

Special countries. Table I, modified<sup>1</sup>

Under each country the subdivisions A-Z may be found in the following table which applies especially to the United States. Except when alternatives are provided for in the table, a second cutter number is added for author, e. g. T223.D7A-Z Indexes to patents, subarranged as follows (where applicable):

.D7A1-5 Documents

.D7A6-Z Nonofficial works

When the class number is also divided alphabetically by special countries, the scheme is slightly modified:

e. g. T295.P7F4-99 Classification of Political

T313.K8V2-39 Korean trademarks. Official and nonofficial works

T319.S7V4-99 South African trademarks. By subject, A-Z

T319.S7V68 Glassware

If a country in the table has two or more numbers, the first number is for the country, the second number for colonies, e. g.

Gt. Brit. Colonies

Subdivisions A-Z<sup>1</sup>

A2	Periodicals e. g. United States Patent
B2	Specifications
C2	Lists other than regular perio
D7	Indexes to patents
F4	Classification Patent Office
H3	Annual reports
J4	Special reports
K6	Rules of practice
L2	Rules. Nonofficial editions
M2	Decisions of Commissioner of
N2	List of attorneys
P2	History
R2	Guides to Patent Office
S3	Reports of government committees etc.
S5	Biography of Patent Office officials biographies, A-Z
	Patent law
T1	Codes. Collections. By imprint
T2	Laws (General)
T25	Treatises (General)
T3	General special
T4	Special laws. By imprint date
T5	Other special. By imprint date e. g. Court of patent appeals
(T6)	Special classes of patents, e. g. Cases
T7	Collections
T8	Lists of adjudicated cases
T9	Particular cases (except as to subject)
U3	Designs and models
	Trademarks
V1	Periodicals Official publications
V13	General collections
V15	Separate documents. By imprint
V2A2	Laws. Official collections date
V2A3	Decisions. Rules. Regulations. imprint date
	Nonofficial works
V2A6-Z	General works

Special countries. Table I, modified  
Subdivisions A-Z

Trademarks - Continued

Registrars. Lists

V4A2

General works

V4A3-Z

Special. By subject, A-Z

.V4B7 Boots and shoes

.V4C3 Canned foods

.V4C5 Chemicals

.V4C55 Cigars

.V4C58 Citrus fruits

.V4C7 Confectionery

.V4C8 Cosmetics. Toiletries

.V4E4 Electric cables

.V4F5 Flour

.V4G5 Glassware

.V4J5 Jewelry

.V4S6 Soaps

.V4T4 Textiles

Toiletries, see .

Z1A-Z General nonofficial works on pa

Arctic regions

Antarctic regions

Designs and models of patents (General)

For special countries, see .U3 under T221-

Trademarks (General)

For special countries, including trademark

products of those countries, see .V1-4 u

Addressee, essays, lectures

Inventors' manuals. Publications of patent so

Including works on how to protect, patent,  
inventions

Industrial design coordination

MECHANICAL DRAWING. ENGINEERING GRAPHICS

Cf. QA501-521, Descriptive geometry

T11.8, Technical illustration

TA337, Schematic and graphic methods

in engineering

TJ227-240, Machine drawing

Periodicals, societies, etc.

Study and teaching

Drawing-room management and practice

Cf. T375, Drawing-room equipment and supplies

General works

Problems, exercises, etc.

Structural drawing

Cf. NA2700-2725, Architecture

General special

e. g. Tinting, standards

Freehand drawing for technical purposes

Technical blackboard drawing

Projection

General works

Orthographic projection

Including axonometric and isometric projec

Projection - Continued

Oblique projection

Including cavalier and cabinet projection

Perspective projection

Cf. NC749-750, Drawing, design, illustration (Fin

Lettering

Cf. NK3600-3640, Alphabets, calligraphy and initials

NK8705, Stonework

TT360, Signs

Drawing instruments and materials

Catalogs

Working drawings and their use. Blueprint reading

Cf. TA175, Engineering drawings

TR915-923, Reproduction of drawings

Computer graphics

### EXHIBITIONS

Including the great national and international exhibitions. For exhibitions

of local societies, see T180-183

Cf. S551-559, Agricultural fairs

General works

Periodicals, societies, collections

Documents

Cf. T395, History

History

By region or country, A-Z

Organization, methods, classifications, etc.

Including display techniques

General works

Display technique. Pavilions

Special, A-Z. By city

.C5 Chicago. World's Columbian Exposition, 1893

Special exhibitions, arranged by place and subarranged by

Subdivisions to be used under the exhibitions:

Guidebooks

.A1 Official

.A2 Others, A-Z

Histories and descriptions

.B1 General works

.D2-9 General special

e. g. T500.B5, Chicago, 1893, Midway

.C1 Collections of pictures, views, etc.

Official publications

.D1 Acts of incorporation, rules, organization

.D13 Translations of acts

.D15 Rules, regulations, etc.

.D17 Translations of rules, regulations, etc.

Classification of exhibits, see T397.A-Z

.D2 General reports, proceedings, etc., of governing board

.D25 Reports of national (government) commissions

.D3 General reports of special boards, commissions, etc.

.D4 Congressional hearings and reports of national government on appropriations, etc. By

Subdivisions to be used under the exhibitions:

Subdivisions to be used under the exhibitions:

## Official publications - Continued

- .D5 Special reports. By date
- General catalogs
- .D61-69 Official (subarranged chronologically)
- .D7 Nonofficial (subarranged by author)
- .D8 Reports and awards of jurors
- .D9 Miscellaneous printed matter
- Official comprehensive reports on the  
by editorial commissions, etc.
- .E1A-Z General official reports of other countries  
exhibitions
- For their own exhibits, see .G1
- Exhibits of the country in which the  
is held
- .F1 Collective. General only
- Special with subject
- .F2 Government exhibit
- .F3 State exhibits, etc.
- .G1 Exhibits of other countries
- e. g. T500.G1F8, France. Exhibit  
1893 (.G1F801-B99 may be  
needed)
- Cf. .E1A-Z, General official reports  
exhibitions
- .H1 Parts of the exposition
- Works on various exhibits which  
be classified with any one subject  
a works on an educational exhibit  
class I, Education, subdivision  
but a work on Machinery hall is  
here
- .K1 Exhibits arranged by names of exhibit
- See note after .H1
- .L1 Miscellaneous
- Other than. A1-.K1
- .N1 Congresses. General reports
- Only second copies here, first copies  
Reports on particular congresses  
ject

Abordoen	436	Basel
Adolaide, 1897	439	Batavia
Agra, 1867	.3	Belgrad
Agram, <u>see</u> Zagrsb	.5	Bergen, 1898
Alexandria	440	Berlin
Algiers	450	Birmingham
Amsterdam	452	Bogotá
1859	.5	Bolzano
1869	453	Bombay
1883	456	Bordeaux
Antwerp, 1894	460	Boston, 1883
Athens	463	Brisbane, 1875
Atlanta		Brussels
18B1	465	Before 1910.
1895		By date
Bahia, 1872	467	1910
Baltimore	468	1935
Barcelona	469	1958

by year - Continued

Bucharest	615	Ghent, 1913
Budapest	618	Glasgow, 1888
1885	619	Graz
1896	.5	Guadalajara, 1880
1925	620	Guatemala, 1878
Buenos Aires	621	Haarlem, 1861
1875	624	Hague
1880	631	Hamburg
1882		Hanoi
1910	633	1902
Buffalo, 1901	.5	Since 1902. By
Cadiz	635	Havana
Cairo	640	Hong Kong
Calcutta	645	Indianapolis
Canton	647	Izmir
Cape Town	648	Jamestown, 1907
Caracas	650	Johannesburg
Casoria, 1864	655	Kingston, Jamaica,
Charleroi, 1911	670	Klagenfurt, 1838
Charleston, 1901-1902	.5	Kōchi, Japan. By
Chicago	671.3	Lagos
1873	.5	La Paz, Bolivia
1883	.8	Lausanne
1893	673	Leeds
1933-1934	678	Leipzig
Christiania, <u>see</u> Oslo		Liège
Cincinnati	679	1905
1870-1872	.3	1930
1888	.5	Later. By date
1935	680	Lima
Ciudad Trujillo	681	Lisbon
Cleveland, 1909	684	Liverpool, 1886
Later. By date	687	Loanda
Colombo, Ceylon		London
Constantinople	690	1851
Copenhagen	691	1862
Cordoba, 1871	695	1871-1874
Cork, 1852	.5	1884
Curitiba, 1875	.6	1885
Dairen. By date	696	1886
Dallas, 1936-1937	697	1887
Denver, 1882-1883	.3	East London
Detroit, 1892	698	1906
Later. By date	699	1908
Djakarta	700	1910
Dnepropetrovsk, 1910	.2	1912
Dresden	.5	1917
Dublin	.8	1928
1853	701	1929
1865	702	Later. By date
Düsseldorf	703	Long Beach, Calif.
Dunedin	704	Los Angeles, Calif.
1865	705	Louisville, 1886
1925-1926	710	Lyons, 1894
Edinburgh	711	Later. By date
Florence, 1861		Madrid
Geneva	714	Before 1891. By
Genoa, 1892	715	1891

## Special exhibitions, arranged by place and subarrange

year		
Madrid - Continued		Philadelphia
Later. By date	825	1876
Manchester, 1887	826	1877-1879
Manila	.3	1926
Marseilles	828	Pisa, 1868
Modellin, Colombia	830	Pittsburgh
Melbourne	831	Port-au-Prince, 194
1861	832	Portland, Maine
1866-1867		Portland, Oreg.
1875	834	1905
1880-1881	.2	Later. By date
1888-1889	836	Prague
Memphis	837	Quito
Mexico (City)		Rio de Janeiro
Milan	839	Before 1875. By
Milwaukee	840	1875
Minneapolis	841	1876-1907. By da
Minsk	843	1908
Montreal	844	Later. By date
Moscow	845	Rio Grande do Sul
Mukdon	850	Rome
Munich	860	St. Louis, 1904
Nagasaki	865	St. Paul
Nancy	868	St. Petersburg
Nanking	871	San Antonio, Tex.
Naples	872	San Diego, 1915
Nashville, 1897	.3	Since 1915. By d
New Orleans		San Francisco
1854	874	1894
1884-1885	875	1895-1914. By da
1885-1886		1915. Panama-Pac
New York		exhibition, <u>see</u>
1853-1854	876	Later. By date
1855-1938. By date	877	San José, 1886
1939-1940	878	San Juan, Porto Rico
Later. By date		Santiago de Chilo
Niagara Falls, 1926	879	1872
Odoosa	.1	1873
Omaha, 1898	880	1875
Oporto	881	1942-1943
Osaka. By date	884	Sarajovo
Oslo (Christiania)	888	Schwerin, 1861
Panama		Seattle
Panama-Pacific	890	1909
exposition, 1915,	.2	Later. By date
<u>see</u> TC781	892	Seoul
Paris	894	Seville, 1929-1930
Before 1855. By date	896	Shanghai
1855	903	Springfield, Mass.
1867	910	Stockholm, 1897
1875	915	Strassburg
1878	920	Sydney, 1879-1880
1889	930	Tananarivo
1900		Tokyo
Later. By date	937	Before 1912. By
Peking	938	1912- By da



ExhibitionsSpecial exhibitions, arranged by and subarranged by  
year - Continued

Toluca, Mexico	983	Washington, 1846
Toronto	984	Since 1846. By date
Trieste	986	Wellington, N. Z., 1885
Turin	988	Wembley, Eng., 1924-1925
1884	990	Yokohama
Later. By date	992	Zagreb (Agram)
Valladolid, 1850	995	Zürich
Valparaiso		
Venice		
Vienna, 1873		
Villanueva y Geltrú		
Warsaw		

English  
 French  
 German  
 Other languages (not A-Z)  
 Congresses  
 Exhibitions. Museums  
 General works  
 By region or country, A-Z  
     Under each country:  
         .x General works  
         .x2 Special, by city, A-Z  
         e. g. .U5, United States (General works); .U6, United States (Engineering)  
         York. Museum of Modern Art (Engineering)  
 Collected works (nonserial)  
 Dictionaries and encyclopedias  
 Symbols and abbreviations  
 Directories of engineering companies and engineers  
 History  
     General works  
     Ancient  
     Medieval  
     Modern  
         To 1800  
         1800-  
 Country divisions. Table I<sup>1</sup>  
     Cf. HD3881-4420.5, Economic aspects of public works  
     Under each country:  
         (1) General works  
         (2) Special divisions, A-Z  
             For special cities, see TD25-126.  
             see 74 for states, A-Z, not 73.2-  
     In TA21-126 are classed general historical and  
     literature, reports on public works, etc.; e.  
     Canada. Department of Public Works. General  
     TA27.N5A2, New Brunswick. Department of Pub  
     Annual report; TA57.S59, Simms, F. W. Publ  
     Great Britain  
 Biography  
     Collective  
     Individual, A-Z  
General works. Civil engineering, etc.  
     Early to 1850  
     1850-  
     Elementary textbooks  
     Popular works  
     Juvenile works  
     Handbooks, manuals, etc.  
         Cf. TA332, Pocketbooks, tables, etc. (Engin  
         ematics)  
         See also Tables of structural shapes and soc  
         and iron, TA685  
     Laboratory manuals  
     General special  
     Addresses, essays, lectures

or Table I, see pp. 263-265. Add country number in table t

- Industrial technicians
  - Cf. TS155.4-5, Manufacturing personnel
- Technical education. Technical schools, see T61-173
- Examinations, questions, etc.
- Research
  - Special countries
    - United States
    - Other regions or countries, A-Z
- Bioengineering
- Engineering instruments, meters, etc. Industrial instrumentation
  - Cf. TJ212-225, Control engineering
- Human engineering
  - Particular applications to be classed in the field of cation, e. g. TH250, Automobile design
  - Cf. T59.7-.77, Industrial engineering
- Man-machine systems
- Systems engineering
  - Cf. T57.6-.95, Systems analysis (Industrial engineering)
- Environmental engineering
  - Cf. TD, Environmental technology
  - TH6014-6085, Environmental engineering in building
- Environmental testing
- Engineering design
- Drawings and designs
  - Cf. T351-385, Mechanical drawing
- Engineering models
- Engineering economy
  - Cf. TS165-168, Cost control. Value engineering
  - TS181-181.6, Planning for machinery. Tool life
- General works
  - Cost effectiveness. Benefits-to-costs ratios
  - Valuation and depreciation
  - Specifications and contracts
    - Cf. HD2365, Competitive letting of contracts in ind
    - HD3858-3860, Public contracts
    - TH425, Construction of buildings
  - General works. Methods, etc.
    - By country, A-Z
      - Including the official manuals of public works
    - Estimates, quantities, and costs
      - Cf. TH434-437, Construction of buildings
- Accounting for engineers
- Management of engineering works
  - Office systems and records
  - Inspection of workmanship
    - Cf. TH439, Building inspection
    - TS156.2, Inspection of manufactures
  - Safety measures
  - Planning of operations. Critical path methods
- Engineering meteorology
  - Industry and meteorology
    - Special industries and applications are classed with field, e. g. TH7392.X6, Heating of factories
- Contractors' operations and equipment. Contracting
  - Cf. TH11, Builders' and contractors' bulletins
- Periodicals
  - General works

TH9C0-915, Construction equipment in building  
 TS181-181.6, Planning for machinery  
 Directories  
 Trade and general catalogs, circulars, etc.  
 General engineering companies, consulting engineers  
 Cf. T56.3, Management consultants  
 Engineering laws. Table I<sup>1</sup>  
 Engineering mathematics. Engineering analysis  
 Cf. TA640-643, Computational methods of structuring  
 Periodicals. Societies. Collections. Congresses  
 General works  
 General special  
 Pocketbooks, tables, etc.  
 Study and teaching  
 Problems, exercises, etc.  
 Numerical methods. Approximations  
 Schematic and graphic methods  
 Special topics, A-Z  
   .B6 Bond graphs  
   .F5 Flowgraphs  
   .N6 Nomograms  
 Probabilistic and statistical methods  
 Mathematical models  
 Cf. TA177, Engineering models  
 Analogs. Simulation methods  
 Cf. T57.62-.64, Industrial engineering  
 Electronic data processing  
 Special systems, A-Z  
   .I2 ICES  
 Other specific mathematical aids in the solution of problems, A-Z  
   .C3 Calculus of variations  
   .D4 Determinants and matrices  
   .D45 Differential equations  
   .D5 Dimensional analysis  
     Matrices, see .D4  
   .T4 Tensor analysis  
   .V4 Vector analysis  
 Power spectra  
Mechanics of engineering. Applied mechanics  
 Cf. TA405-409.3, Mechanics of materials  
 Mechanics applied to machinery, see TJ170-173  
 Structural engineering, see TA630-695  
 Periodicals, societies, congresses, etc.  
 Dictionaries and encyclopedias  
 General works  
 Problems, exercises, etc.  
 Applied statics

Table I, see pp. 263-265. Add country number in table to

- 354 Impact  
355 Vibration in engineering  
Cf. TA654, Structural engineering  
TG265, Bridges  
TH153, Building (General.)  
TH1095, Earthquakes and build  
TJ208, Vibrators
- 356 Vibration of vehicles  
Prefer TF, TL, etc.
- 357 Applied fluid mechanics  
Including fluid dynamics  
Cf. TC160-179, Technical hydraulics  
TJ267, Theory of turbines
- 358 Aerodynamics in engineering  
Cf. TL570-574, Mechanics of flight
- 359 Aerodynamics of vehicles  
Prefer TF, TL, etc.
- 360 Tanks  
Cf. TF271, Tank tanks (Railroads)
- 365 Acoustics in engineering. Acoustical eng  
Particular uses to be classed in the  
e. g. ML3805, Music; NA2800, Architect  
TK5983-5986, Electroacoustics  
Cf. TA418.84, Acoustical properties of  
TD891-893.5, Noise control  
TH1725, Sound control in building
- 367 Ultrasonics in engineering  
Cf. TA417.4, Ultrasonic testing
- 368 Standards (Collections, indexes, etc.)  
Special collections of standards are  
T-TX, e. g. TJ1330, Bolts and nuts  
Cf. T59, Works on standardization and

## MATERIALS OF ENGINEERING AND CONSTRUCTION

- Including building materials  
Constitution and properties of materials
- 401 Periodicals. Societies. Collections. Yearbooks  
.3 Congresses  
.6 Exhibitions  
Subarranged like TA6
- 402 Dictionaries and encyclopedias  
.5 Special regions or countries, A-Z  
General works
- 403 Treatises  
.2 Popular works. Juvenile works  
.4 Pocketbooks, tables, etc.  
.6 General special  
Including transportation, quality control  
.8 Addresses, essays, lectures
- 404 Study and teaching  
.2 Research  
Cf. TA416-417.7, General engineering  
.3 Problems, exercises, etc.  
.5 Specifications and standards

	Chemical properties, <u>see</u> QD, TN, and TP
	Electric and magnetic properties, <u>see</u> QC
404.8	<u>Mechanical properties. Behavior of materials</u>
	<u>forces</u>
	Strength of materials. Mechanics of materials
405	General works
407	General special
	e. g. Stress analysis
.2	Pocketbooks, tables, etc.
.4	Problems, exercises, etc.
.6	Study and teaching
409	Failure of materials. Fracture
	Cf. TA417.6, Deformation of materials
.3	Strengthening mechanisms
410	<u>Testing of materials (General and mechanical)</u>
412	Laboratory manuals
413	Testing machines
.5	Strain gages
416	General engineering and testing laboratories
	Cf. TJ148, Mechanical engineering
.5	By region or country, A-Z
417	Special laboratories. By name, A-Z
.2	Nondestructive tests
.25	Radiographic examinations
.3	Magnetic analysis
.35	Electric analysis
.4	Ultrasonic testing
.6	Deformation of materials under stress
.7	Behavior of materials under specific conditions
	Profer TA418-418.22
	Bending, <u>see</u> .F5
	.C6 Composite
	.C65 Compression
	.F5 Flexure
	.S5 Shock
	.T4 Tension
	.T6 Torsion
	<u>Specific properties and tests</u>
418	Elastic properties and tests
.12	Photoelasticity
.14	Plastic (inelastic) properties and tests
.16	Ductile and brittle states
.17	Notch effect
.18	Strain hardening
.2	Viscous flow. Viscoelasticity
.22	Creep behavior
.24	Temperature-dependent properties and tests
	Effects of temperature on yield strength, flow, etc.
	Cf. TA418.52-58, Thermal properties
.26	Heat resistant materials. Refractory materials
	Cf. TN677-677.5, Metallurgical properties of refractory materials
.28	Cold resistant materials
.3	Time-dependent properties and tests
.32	Dynamic properties
.34	Impact strength

Materials of engineering and construction

Specific characteristics of materials

Mechanical properties. Behavior of materials  
forces

Specific properties and tests - Continued

- 8.36 Endurance properties and tests  
.38 Fatigue behavior  
.4 Mechanical wear  
Cf. TA418.72, Friction properties  
.42 Hardness properties and tests  
.5 Physical properties  
.52 Thermal properties and tests  
.54 Thermal conductivity  
Cf. TM715, Insulation and insulating  
.56 Thermal expansion  
.58 Thermal stresses  
.6 Radiation effects and tests  
.64 Moisture content  
.7 Surface effects and tests  
.72 Friction properties  
Cf. TJ1075-1081, Lubrication and friction  
.74 Corrosion properties. Deterioration  
Cf. TA462, Corrosion of metals  
.75 Corrosion-resistant materials  
.76 Protective coatings  
.78 Materials as particles, with tests  
.8 Particle size determination  
.82 Porosity and denseness, with tests  
.84 Acoustical properties and tests  
Cf. TM725, Soundproof construction  
.9 Materials of special composition or structure, A  
.C6 Composite materials  
Cf. TA481, Metallic composites  
.C7 Crystalline solids  
.F6 Foamed materials  
.I3 Laminated materials  
.R4 Reinforced materials  
Special materials  
For design and construction in special materials  
TA663-695  
.95 Nonmetallic materials  
Wood  
Cf. TA666, Wooden construction  
TS800-915, Lumber and woodwork  
TS920-937, Chemical processing of wood  
9 General works  
0 Strength and testing of wood  
Deterioration and preservation of wood  
Cf. TG200-201, Structures exposed to weather  
2 General works  
3 Special destructive agents  
Including their control  
.2 Fungi. Decay  
.3 Dry rot  
.4 Stain fungi  
.6 Insects  
.7 Termites

Materials of engineering and construction

Special materials

Nonmetallic materials

Wood

Deterioration and preservation of wood - Contin

Preservation of wood

Cf. TT360-345, Painting

Testing

Special preservation methods

Including pressure-impregnation

Special preservatives, A-Z

.C7 Creosote

.F8 Fungicides

.O4 Oil-soluble preservatives

.R8 Rubber

.S3 Salt

.W3 Water-soluble preservatives

Masonry materials

Cf. TA670-683.9, Construction

General works

Stone

General works

Strength and testing of stone

Special kinds of stone, A-Z

Ceramic materials

Artificial materials

General works

Brick, tile, terra cotta

General works

Strength and testing of brick, etc.

Cement, lime, mortar, etc.

Cf. TP875-888, Cement industries

General works

Strength and testing of cement, etc.

Mortar

General works

Strength and testing

Concrete

Including Portland cement concrete

General works

Including mixing

Strength and testing

Including concrete corrosion

Aggregates

Including use of slag, clinkers, etc.

Concrete and timber

Special types of concrete, by cementing sub

A-Z

.A7 Asphalt

.R4 Resin

Reinforced concrete

General works

Strength and testing

Including reinforcing bar corrosion

Reinforcing bar practice, see TA683.42

Gunite, cement-guns, etc.

For protective coverings

Pipes of cement, concrete, and clay

Including drain tile, culverts, etc.

Cf. TP885.P5, Pipe manufacture



Special materials

Nonmetallic materials - Continued

Glass

Including fiber glass

Other nonmetallic materials, A-Z

- .A3 Abrasives
- .A6 Asbestos
- .A7 Asphalt
- .B3 Bamboo
- .B5 Bituminous materials
- .C55 Clay minerals
- .C6 Cork
- .C65 Corundum
- .E5 Enamels
- .F3 Faolite
- .F5 Fire clay
- .F55 Fly ash
- .G7 Graphite
- .G9 Gypsum
- .P4 Peat
- .P45 Perlite
- .P5 Plastics
- .P55 Reinforced plastics
- .P58 Polymers
- .R4 Reed
- R Refractory materials, see TA18.26
- .R8 Rubber
- .S3 Sand
- .S35 Semimetals
- .S4 Shale
- .S46 Silicates
- .S5 Slag
- .S6 Soil
- .V4 Vermiculite
- .W3 Wallboard

Metals

Cf. TA684-695, Metal construction  
TN690-693, Metallography

General works

Strength and testing

Specifications

Corrosion and protection against corrosion

Cf. TS653-718, Metal finishing

TT300-324, Industrial and structural

Liquid metals

Iron and steel

Cf. TN703-757, Metallurgy

UG408-409, Iron and steel for land d

General works

Strength and testing

Specifications

Corrosion and protection against corrosion

Electrolytic corrosion, see TK3255

Stray currents from electric traction,

Wrought iron

General works

Including specifications

Strength and testing

Special materialsMetalsIron and steel - ContinuedSteel

- 472 General works  
Including specifications
- 473 Strength and testing
- 474 Cast iron  
General works  
Including specifications
- 475 Strength and testing
- 478 Iron and steel alloys  
General works
- 479 Special, A-Z  
e. g. .B6 Boron steel  
.C5 Chromium steel  
.S5 Silicon alloys  
.S7 Stainless steel
- .3 Nonferrous metals
- .6 Ceramic metals
- 480 Special metals, including their alloys,  
.A6 Aluminum  
Including duralumin  
.B4 Beryllium  
.C5 Chromium  
.C6 Cobalt  
.C7 Copper  
Including brass and bronze  
.G4 Germanium  
.L4 Lead  
.L5 Lithium  
.M3 Magnesium  
.M35 Manganese  
.M4 Mercury  
.M6 Molybdenum  
.N6 Nickel  
.N65 Niobium  
.S5 Silver  
.T5 Tin  
Including babbitt  
.T54 Titanium  
.T9 Tungsten  
.Y8 Yttrium  
.Z6 Zinc  
.Z65 Zirconium
- 481 Metallic composites
- .5 Fiber-strengthened composites
- 483 Alloys (General)
- 484 Light-weight alloys  
Cf. TA480.A6, Aluminum
- 485 Heat-resistant alloys  
Cf. TA479.6, Ceramic metals
- 486 Corrosion-resistant alloys
- 491 Metal coatings  
Cf. TS590-715, Metal manufacture
- 492 Special forms and shapes in metal, A-Z  
.A6 Angle  
.B3 Balls  
.B63 Bolts and nuts  
.C6 Chains

Special materialsMetals

- 492 Special forms and shapes in metal, A-Z -  
     .C7 Columns  
     .C9 Cylinders  
     .F4 Fillets  
     .F5 Flanges  
     .G5 Girders  
     .H6 Hooks  
     .N2 Nails and spikes  
     .P6 Pipes  
     .P7 Plates  
     .R6 Rivets  
         Cf. TA891, Riveting  
     .S25 Sandwich construction elements  
     .S3 Screws  
     .S5 Shafting  
     .T4 Tee stiffeners  
     .T8 Tubes  
     .W4 Welded joints  
     .W7 Wire  
     .W8 Wire rope
- 495 Disasters and engineering  
     Cf. TC530, Flood control  
     TM1095, Earthquakes and building

SURVEYING

- 501 Periodicals, societies, etc.  
 504 Collected works (nonserial)  
 505 Dictionaries and encyclopedias  
 515-531 History  
     Divided like T15-31
- 535 Study and teaching  
 537 Examinations, questions, etc.  
 538 By region or country, A-Z
- General works  
 544 Early to 1800  
 545 1800-  
 549 General special  
 551 Pocketbooks, field manuals, etc.  
 552 Tables  
 555 Addresses, essays, lectures  
 Instruments, methods, etc.
- 562 General works  
     Special instruments  
         Compass  
         Level  
         Planetable  
         Theodolite and transit  
         Other instruments
- 581 Trade catalogs, circulars, etc.  
 583 Triangulation for engineering works  
     Cf. QB311, Coodsey
- 585 Traverses  
 588 Stadia surveying  
 590 Topographical surveying  
 593 Photography in surveying, aerial surveying, etc.  
     Cf. TE209.5, Aerial surveys in road eng
- 595 Other methods. Compass surveying, etc.

Surveying - Continued

- 597 Applications of astronomy  
e. g. Azimuth observations  
Cf. QB205-207, Geodesy  
VK563, Navigation
- 601 Measurement of distances  
603 Measurement of angles  
606 Leveling  
607 Spirit. Precise leveling  
609 Trigonometric  
Barometric hypsometry, see QC895  
610 Lists of bench marks. By country, A-Z  
611 Plotting  
613 Computation of areas  
614 Planimeter  
Application only
- 616 Topographic drawing  
Use for engineering works only  
Cf. GA125, Topographic drawing  
UG470, Military topography  
Surveying for special purposes
- 622 Public land
- 623 Marine surveying for engineering purposes  
Hydrographic surveying, see VK588-597  
City surveying, see TD167  
Geodetic surveying, see QB301-328  
Military surveying, see UG470  
Mine surveying, see TN273  
Railroad surveying, see TF210-217  
Road surveying, see TE209  
Other special applications

STRUCTURAL ENGINEERING (GENERAL)

For the structural engineering of a specific kind of structure, see the structure, e. g. TC540, Dams; TG, Bridges; TJ, Machinery; TL500-777, Aircraft; VM, Ships; etc. TA660 for general works where a specific structural element is evident, without regard to material. Prefer TA663-666 for works on structures in special materials, including structural parts

- 630 Periodicals, societies, congresses, etc.  
631 Dictionaries and encyclopedias  
General works
- 632 Early to 1850  
633 1850-  
634 Juvenile works  
635 Pocketbooks, tables, etc.  
636 General special  
637 Addresses, essays, lectures  
638 Study and teaching
- .2 Research  
.5 Examinations, questions, etc.  
Structural engineering project management, see TA660  
Structural drawing, see T355  
Computational methods
- 640 General works  
.2 General special  
.4 Problems, exercises, etc.

Structural engineering (General)Computational methods - Continued

Graphic statics

Cf. TG270, Graphic statics in bridge engineering

TJ235, Graphic statics in mechanical engineering

Influence lines

Electronic computer methods

Matrix methods

Model analysis. Simulation methods

Structural analysis. Theory of structures

General works

General special

Static loading conditions

Dead loads

Stresses

Shear. Bending moments

Strains and deflections

Statically indeterminate structures

Including the slope-deflection method, moment-distribution method, Cross method, Castigliano's theorem, three-moment theorem, etc.

Continuous systems

Limit analysis. Plastic analysis. Yield stress analysis

Dynamic loading conditions. Structural dynamics. Vibration

Impact loading

Live loads. Moving loads

Snow and ice loads

Cf. TG304, Bridges

TH895, Snow loads in building

Wind loads

Cf. TG303, Wind pressure on bridges

TH891, Wind pressure in building

Water wave loads

Earthquake forces

Cf. TA658.44, Earthquake resistant design

TH1095, Earthquakes and building construction

Blast loads

Cf. TA658.42, Blast resistant design

TH1097, Bombproof construction

Thermal stresses

Stability of structures. Structural failure

Buckling

Fatigue

Brittle fracture

Probability of safety

Structural design

For the design of structures of a specific material, the specific material, TA663-695

General works

General special

Pocketbooks, tables, etc.

Problems, exercises, etc.

Structural design for dynamic loads

Blast resistant design

Earthquake resistant design

Limit design. Plastic design

Specific structural forms, analysis and design, A-Z

.A7 Arches

Cf. TG327-340, Arched bridges

## Continued

- .B3 Bars
- .B4 Beams
  - Cf. TG350, Beams and girders of bridges
- .B43 Beams, Continuous
- .C3 Cables
- .C6 Columns
- .C9 Cylinders
- .D6 Domes
  - Cf. TH2170, Domes in building detail
- .F6 Floors (General)
  - Cf. TH2521, Floors in building detail
- .F7 Frames
- .F72 Frames, Continuous
- .F73 Frames, Multistory
- .G7 Grillages
- .P6 Plates
- .P63 Plates, Folded
- .S5 Shells
  - Cf. TH2416, Shell roofs of buildings
- .S6 Slabs
- .T6 Towers
  - Cf. TH2180, Towers on buildings
- .T8 Trusses
  - Cf. TG375-380, Trussed bridges
  - TH2392, Roof trusses
- .W3 Walls (General)
  - Cf. TH2201, Walls in building detail

Design and construction in special materials

For properties of special engineering materials regard to their structural use, see TA419-492

Lightweight construction

Composite design and construction

Prestressed construction

Wooden construction

Cf. TH1101, Building construction

Plastic construction

Masonry construction

Cf. TH1199, Building construction

TH5311-5511, Practical masonry

Stereotomy

Cf. TH5401-5421, Stonecutting

Stone

Cf. TH1201, Building construction

Brick

Cf. TH1301, Building construction

Cement and concrete

Cf. TH1461-1501, Building construction

Periodicals, societies, congresses

Directories

General works

Analysis and design of structures

Pocketbooks, tables, etc.

Specifications and standards

Estimates and costs

Joints. Hinge

Practical construction methods

Amateurs' manuals

Cold weather conditions

Structural engineering (General)

Design and construction in special materials

Masonry construction

Cement and concrete

Practical construction methods - Continued

- 2.44 Formwork
- .46 Vibration processes
- .47 Vacuum processes
- .49 Finishing processes
- .5 Individual structural members, A-Z
  - .S5 Slabs
- Reinforced concrete construction
  - Cf. TA444-445, Construction materials
  - TH1501, Building construction
- Periodicals, societies, congresses, see T
- General works
  - .2 Analysis and design of structures
  - .22 Pocketbooks, tables, etc.
  - .23 Examinations, questions, etc.
  - .24 Specifications and standards
  - .26 Estimates
  - .28 Drawings. Detailing
- .3 Joints
- .4 Practical construction methods
  - .42 Reinforcing bars
  - .44 Formwork
  - .46 Vibration methods
- .5 Individual structural members, A-Z
  - .B3 Beams
  - .C7 Columns
  - .F8 Frames
  - .S4 Shells
  - .S6 Slabs
- .7 Precast construction
- .9 Prestressed concrete construction

Metal construction

Iron and steel

Cf. TA890-891, Cutting, bending, riveting and steel

Catalogs. Pocketbooks, tables, etc.

Aluminum and aluminum alloy

Other metal construction, A-Z

Engineering geology

Cf. TC542, Dam geology

Rock mechanics

Testing methods

Soil mechanics

Physical properties of soils, water in soil, strength properties, consolidation, etc.

Cf. TE208, Soil surveys in highway engineering

TL243, Dynamics of motor vehicles

0.A1A-Z Periodicals, societies, congresses, etc.

.A2-Z General works

.5 Testing of soils

2 Underground construction

3 Frozen ground construction

Earthwork

General works

Tables, calculations, etc. Estimates

Earthmoving machinery

Cf. TA735, Excavating machinery

Earthwork - Continued

- 730 Excavations  
735 Excavating machinery  
Cf. TC187-188, Dredging  
TF225-226, Railroads  
737 Trade catalogs  
740 Rock excavation  
743 Rock drilling  
Cf. TA800-820, Tunneling  
TD412, Well boring  
TN275-297, Mining operations  
745 Rock drills  
747 Trade catalogs  
748 Blasting  
750 Hydraulic filling  
760 Embankments, retaining walls, dams, etc.  
Cf. TC540-549, Dams  
765 Earth pressure  
770 Retaining walls  
Foundations  
Cf. TC197, Foundations under water  
TG320, Foundations of bridges  
TH2101, Foundations of buildings  
775 General works  
777 Guy anchors  
780 Piles and pile-driving  
783 Screw-piles  
785 Sheet-piling  
787 Concrete piling  
Tunneling, Tunnels  
Including vehicular tunnels  
Cf. TF230-238, Railroad tunnels and tunnels  
TN285, Mine tunneling  
800 Periodicals, societies, congresses, etc.  
803 History  
804 By region or country, A-Z  
805 General works  
807 Popular works. Juvenile works  
810 Pocketbooks, tables, etc.  
814 Ventilation and lighting  
815 Special topics and methods  
820 Tunnels. By place, A-Z  
Scaffolding, see TH5281  
Practical masonry, stonecutting, bricklaying,  
TH5311-5511  
(881) Centering of arches, see TH5591  
890 Iron and steel work (Cutting, bending, etc.)  
Cf. TA684, Construction  
891 Riveting  
900 Protection of structures  
Cf. TH9025-9092, Protection of buildings  
901 Waterproof construction  
Cf. TH9031, Protection of buildings from



For economics of transportation, see HE

For individual forms of transportation, see partic  
e. g. TF, Railroads; TL, Motor vehicles, Cycles,  
etc.

Periodicals and societies

Yearbooks

Congresses

Exhibitions. Museums

Subarranged like TA6

Collected works (nonserial)

Dictionaries and encyclopedias

History

Country divisions. Table I<sup>1</sup>

General works

Popular works

Juvenile works

Handbooks, tables, etc.

Addresses, essays, lectures

Transportation engineering as a profession

Study and teaching

Route surveying, see TA551, TA625

Coordination of forms of transportation

Urban and metropolitan transportation systems

Freight

Containerization

Terminals. Transport centers

Signaling equipment

Signal lights

Heating, ventilation and air-conditioning equipment

1	Periodicals, societies, etc.
5	Congresses
6	Exhibitions. Museums
	Subarranged like TA6
7	Collected works (nonserial)
9	Encyclopedias
	History and description
15	General works
16	Ancient
17	Medieval
18	Modern
19	19th century
20	20th century
1-126	Country divisions (General hydraulic works) Ta
	Biography
139	Collective
140	Individual, A-Z
	.K5 Klir, Antonín
	<u>General works</u>
144	Early to 1800
145	1800-
146	Juvenile works
147	Waterpower engineering. Hydraulic powerplants
	Including use of tidal power
	Cf. TJ840-935, Hydraulic machinery
	TK1081, 1421-1526, Hydroelectric power
	For power utilization of specific rivers
151	Pocketbooks, tables, etc.
153	General special
155	Addresses, essays, lectures
	Study and teaching
157	General works
.5	Problems, exercises, etc.
158	Hydraulic laboratories
	<u>Technical hydraulics</u>
160	General works
163	General special
165	Hydrostatics (Water at rest)
167	Dams, reservoirs
169	Gates, sluices, etc.
171	Hydrodynamics (Water in motion)
172	Water waves
173	Orifices. Nozzles
	Cf. TH9323, Fire streams
174	Pipes and conduits
	Including water hammer
175	Open channels, rivers, and canals. Sluices
	Stream gaging
.2	Sediment transport
176	Underground flow
177	Hydraulic instruments, meters, registers,
	Cf. TD499-500, Domestic meters

Technical hydraulics

	Hydrodynamics (Water in motion) - Continued
179	Tablos, diagrams, etc.
180	Hydraulic structures
	Cf. TA654.55, Water wave loads
181	Earthquakes and hydraulic structures
183	<u>General preliminary operations</u>
	Diving, <u>see</u> VM981-989
187	Dredging
188	Dredges
191	Submarine blasting
192	Holl Cato
193	Submarine drilling
	Cf. TN871.3, Petroleum well drilling
195	<u>Submarine building</u>
197	Submarine foundations. Cribwork, etc.
	For bridge pier foundations, <u>see</u> TG320
198	Coffordams
199	Caissons
200	Deterioration of structures exposed to sea
201	Control of organisms injurious to submerged
	Cf. QM91.8.M3, Marine biology
	TA422-424.6, Wood
	<u>Harbors and coast protective works</u>
203	Periodicals. Societies. Yearbooks
.5	Congresses
	General works
204	Early to 1800
205	1800-
209	General special
15-326	History and country divisions. Table I <sup>1</sup>
	Under each country except as otherwise s
	(1) General works
	(2) Special harbors (inlets, channels
328	Marinas
330	<u>Coast protective works</u>
333	Breakwaters
335	Seawalls
337	Dikes, levees, embankments
	River levees, <u>see</u> TC533
	Canal ombankments, <u>see</u> TC759
339	Dunes (as defense works)
343	Reclamation and preservation of land from the
	Cf. TC970-978, Land drainage and reclamati
	swamps, and lakes
345	By region or country, A-Z
	<u>Harbor engineering</u>
	Cf. HE551-560, Economic aspects
353	Sea locks
355	Docks
357	Piers, quays, and wharves
361	Drydocks
363	Floating docks
365	Other special docks

Including cranes

- Cargo handling, etc., see VK235
- General special
- o. g. Mooring borths, fondors
- Lighthouses (Construction and equipment)
- Cf. VK1000-1246, Lighthouse service and lists of 1
- Lights, lamps, etc.
- Lenses
- Lightships
- Buoys, etc.
- River, lake, and water-supply engineering (General)
- Development of the water resources of a watershed
- Cf. TD201-500, Municipal water supply
- Periodicals, societies, congresses, etc.
- General works:
- Early to 1800
- 1800-
- Popular works
- Pocketbooks, tables, etc.
- General special
- o. g. Estimation of value, simulation techniques
- shed management
- Addresses, essays, lectures
- History and country divisions. Table I<sup>1</sup>
- Cf. GB1201-1397, Physical goography of rivers
- HE381-520, Economic aspects of waterways
- Under each country except as othorwise specified:
- (1) General works
- (2) Special rivers and lakes, A-Z
- o. g. 423 United States
- .3 Great Lakes (including
- of water from Lake Mi
- 425.M6 Mississippi River
- .M61 Conventions. By date
- .M62 Levees
- .M63 Levees of special sta
- .M65 Jetties
- .M66 Special states, A-W
- .M67 Special citioe, A-Z
- .M67M5 Memphis
- 426 Rivers of Canada
- .5 Provinces, A-Z
- 427.S3 St. Lawrence River
- 457 Rivers of Great Britain
- 464.T4 Thames
- 465 Rivers of Austria
- 466.D2 Danube
- 471 Rivers of France
- 472.S4 Seine
- 503 Rivers of India
- .5 Provinces, etc., A-Z
- 504.I4 Indue River

Loveos

Jotties

Tree planting

Dams. Barrages

Damsite selection

Dam geology

For the geology of damsites of special areas,  
TC556-558

Dam types

Earthen dams

Wooden dams

Masonry dams. Concrete dams

Other, A-Z

e. g. Steel, movable, boardtrap, needle

Sluices and gates

Waste-ways, spillways, weirs, etc.

Special countries

United States (General)

By region, A-Z

By state, A-W

Under each (using two consecutive cutter num

(1) General works

(2) Special dams, A-Z

e. g. .C2-3 California

.C2 General works

.C3 Special dams, A-Z

.C3C2 Cachuma Dam

By river, A-Z

Use only where special river is located in t  
states, e. g. .P6 Potomac River

Other special dams, A-Z

Use only where special dam is situated in t  
e. g. .H6 Hoover Dam

Other countries, A-Z

Under each (using two consecutive cutter numbe  
TC557):

e. g. .E4-5 Egypt

.E4 General works

.E5 Special dams, A-Z

.E5A8 Aswan High Dam

Canals and inland navigation. Waterways

Cf. HE391-545, Economic aspects

TC930, Irrigation canals

Periodicals, societies, etc.

Congresses

Collected works (nonserial)

History and country divisions. Table I<sup>1</sup>

Under each country except as otherwise specified

(1) General works

(2) Special canals and locks, A-Z

Isthmian canals, see TC773-788

Suez Canal, see TC791

Table I, see pp. 263-265. Add country number in table to 60

tries represented by cutter numbers are subdivided: .x, General  
ial canals, locks, lakes, etc., A-Z

Under United States:

- 623 Canals (General)
  - .1 Great Lakes to Atlantic
  - .2 Great Lakes to Gulf of Mexico
  - .3 Mississippi to Atlantic
  - Intra-coastal waterways
  - .4 Atlantic
  - .5 Gulf of Mexico
  - .7 Miscellaneous general projects
- 624 Special states, A-W
- 625 Special canals and locks, A-Z

Under each:

- .A1-3 Serial documents
- .A5 Special documents (by date)
  - o. g. .M6A2, Middlesox
  - Annual report

Special canals of Great Britain are classed TC6

o. g. .M2, Manchester Ship Canal

Europe: TC655-656

655, General works

656, Special projects, A-Z

s. g. TC656.R5, Rhine-Main-Danube W

Balkan Peninsula: TC695.A2-3

.A2 General works

.A3 Special projects, A-Z

o. g. .A3D3, Danube-Adriatic project

General works

Early to 1800

1800-

Pocketbooks, tables, etc.

General special

Addresses, essays, lectures

Special aspects

Canal embankments

Canal locks

For special locks, see TC615-726

Canal gates

Including operating devices

Lifts and inclines

Canal aqueducts

Canal boats

Resistance of water

Motive power. Towing

Mechanical and electrical

Ship canals (General)

All economic studies, traffic statistics, etc.  
classified in HE395-545

Ship and boat railways

Special (except Tehuantepec)

Tehuantepec Ship Railway, see TC786

Isthmian canal projects (General)

See note under TC770

Panama Canal

General works

Economic aspects in HE537-538

Operation of the canal

Cf. HE538, Administration of the canal

Miscellaneous uncataloged matter

Isthmian canal projects (general)

Panama Canal - Continued

- B9 Compagnia universelle du canal interocéanique  
1) Bulletin du canal interocéanique  
2 Annual report of directors, see HE537.33  
3 Annual report of chief engineer  
4 Other serial reports  
5 Special reports. By date  
7) Charter, bylaws, see HE537.37  
8 Other printed matter  
Compagnie nouvelle du canal de Panama  
Subdivided like TC778  
The "Panama affair" and history of the company  
Panama Exposition  
Preliminary  
United States  
.A1-3 Documents  
.A4 States, A-W  
.A5 Cities, A-Z  
.A6 Other countries, A-Z  
.A7 Nonofficial, by author  
The Exposition  
.A8 Official guides  
.B1-N1 Other works as in T400-999  
Other isthmian canal projects  
Nicaragua Canal  
Tehuantepec Canal  
Tehuantepec Ship Railway  
Darien, Atrato and others  
Suez Canal

Irrigation engineering, Reclamation of wasteland

- Cf. HD1691-1701, Water rights  
HD1711-1741, Economic situation, history, etc.  
S613-621.5; SB112, Agriculture  
TC343, Reclamation of land from the sea  
Periodicals, societies, etc.  
Congresses  
General works  
General special  
Management of irrigation projects  
History and country divisions. Table I<sup>1</sup>  
Documents, unless strongly economic, are classified  
rather than in HD  
Under each country except as otherwise specified  
(1) General works  
(2) Local  
Under TC904 India use TC904.5 for special  
A-Z, e. g. TC904.5.G2, Ganges Canal

- 927 Irrigation by pumping
- 930 Irrigation canals
- 933 Irrigation flumes and conduits
- 937 Gates and other incidental structures
- 950 Flooding of deserts and wastelands
  - Special
    - 953 United States
    - 955 The Sahara
    - 957 Other, A-Z
- Drainage
  - Cf. HD1681-1683, Economics, public policy, 1
  - S621, Farmers' manuals
  - 970 Land drainage
  - 975 Reclamation of bogs, swamps, lakes, etc.
    - Cf. TC343-345, Reclamation of land from the
  - Country divisions
    - 976 United States
    - 977 Regions or states, A-Z
    - 978 Other regions or countries, A-Z
      - Under each country:
        - .x General works
        - .x2 Local, A-Z
      - e. g. Great Britain
        - .G7 General works
        - .G72 Local, A-Z
- OCEAN ENGINEERING
  - Cf. GC1015-1023, Marine resources
  - 501 Periodicals, societies, etc.
  - 505 Congresses
  - 645 General works



health, comfort and convenience by the control of the environment

Cf. GF, Human ecology

HC68, HC95-710, Environmental policy (General)

HD3840-4730, Economic aspects (Government ownership, municipal industries, finance, etc.)

QH75-77, Landscape protection

RA565-604, Public health

S622-627, Soil conservation

S900-972, Conservation of natural resources

TC801-978, Reclamation of land

TH6014-7975, Building environmental engineering

Periodicals and societies, by language of publication

English

French

German

Other languages (not A-Z)

Congresses

Exhibitions. Museums

Subarranged like TA6

Collected works (nonserial)

Dictionaries and encyclopedias

Directories

History

General works

Ancient

Medieval

Modern to 1800

Nineteenth century

Twentieth century

Country and city subdivisions. Table I<sup>1</sup>

Including municipal reports of public sanitary work

Under each country (except as otherwise specified)

(1) .A1A-Z General works

.A6-Z States, provinces, etc.

(2) Local (Cities, etc.), A-Z

Biography

Collective

Individual, A-Z

General works

Early to 1850

1850-

Elementary textbooks

Popular works

Pocketbooks, tables, etc.

General special

Addresses, essays, lectures

Environmental and sanitary engineering as a profession

Study and teaching

Research

Municipal engineering organization and management

Cf. GV421-433, Playgrounds  
 HD7285-7390, Housing  
 SB481-485, Parks  
 TE, Streets and roads  
 TH350, Engineering of the subdivision

- 159.A1A-Z Periodicals, societies, congresses, etc.  
 .A5-Z General works  
 .3 General special  
 By region or country, see TD21-126  
 .5 Department organization and management  
Planning and laying out cities  
 Cf. HT166-169, City planning (Urban sociology)  
 HT170-177, Urban renewal  
 NA9000-9284, City planning (Architecture)  
 160 General works  
 163 General special  
 167 City surveying

### ENVIRONMENTAL POLLUTION

Including its control  
 Prefer classification by special type  
 pollution, e. g. GC1080-1572, Marine  
 pollution; TD420-427, Water pollution;  
 TD881-890, Air pollution; TD891-897,  
 Noise pollution  
 Cf. S602, Crops and pollution

- 172 Periodicals, societies, etc.  
 .5 Congresses  
 173 Dictionaries and encyclopedias  
 .5 Directories  
 174 General works  
 175 Popular works  
 176 Juvenile works  
 .4 Pocketbooks, tables, etc.  
 .7 Addresses, essays, lectures  
 177 General special  
 Study and teaching  
 178 General works  
 Special countries  
 .3 United States  
 .4 Other countries, A-Z  
 Research  
 .5 General works  
 Special countries  
 .6 United States  
 .7 Other countries, A-Z  
 .8 Environmental laboratories  
 .A1A-Z General works  
 .A2-Z By region or country, A-Z  
 Under each country:  
 .x General works  
 .x2 By state, province, etc.,  
 .x3 Special, by city, A-Z  
 179 History

- Special countries
  - North America
    - United States
      - General works
      - By region or state, A-Z<sup>1</sup>
    - Canada
      - General works
      - By region or province, A-Z<sup>1</sup>
    - Mexico
      - General works
      - By region or state, A-Z<sup>1</sup>
  - Central America
    - General works
    - By country, A-Z<sup>2</sup>
  - West Indies
    - General works
    - By country, A-Z<sup>2</sup>
  - South America
    - General works
    - By country, A-Z<sup>2</sup>
  - Europe
    - General works
    - By country, A-Z<sup>2</sup>
  - Asia
    - General works
    - By country, A-Z<sup>2</sup>
  - Africa
    - General works
    - By country, A-Z<sup>2</sup>
  - Oceania
    - General works
    - By country, A-Z<sup>2</sup>
      - e. g. .A8 Australia
      - .N4 New Zealand
  - Polar regions
    - General works
    - Arctic regions
    - Antarctic regions
  - Pollution control equipment and supplies

state or province may be assigned two cutters: .x, General works; .x2, A-Z, e. g. TD181.C3-32, California

country may be assigned two cutters; .x, General works; .x2, A-Z, e. g. TD183.G8-82, Guatemala

Class here works on the supplying of usable water to consumers, including works on the water-supply systems and available resources of specific localities and works dealing with both water supply and sewerage. For general works on water-supply engineering (including especially the design and construction of works to procure water), as well as works on the development of the water resources of a watershed, see TC401-558. For works describing the hydrology of a region without regard to development, see GB651-2598

Water supply and public health, see RA591-598

Rural water supply, see TB927

For water supply in specific industries, see the industry, e. g. TS1116.2, Paper industry

Periodicals, societies, congresses, by language of

English

French

German

Other languages (not A-Z)

Communication of water supply information

Information services

History

General works

Ancient

Medieval

Modern

Nineteenth century

Twentieth century

Country subdivisions. Table I<sup>1</sup>

Including all local or departmental reports

Under each country (except as otherwise specified)

(1) .A1A-Z General works

.A6-Z States, provinces, etc., A-Z

(2) Local (Cities, etc.), A-Z

General works

Early to 1800

1800-

Elementary textbooks

Popular works. Juvenile works

Pocketbooks, tables, etc.

General special

Addressees, essays, lectures

Water rates

Local, see TD221-326

Cf. TD499-500, Meters

Water quality management

Qualities of water. Water quality

Local, see TD221-326

Softness

Hardness and its correction

Chemical purification, see TD451-468

Examination and analysis of water

Including results

Specific pollutants of water, see TD427

General works

Chemical, see QD142

Microscopical. Bacteriological

Special bodies of water, A-Z

For water supplies of a special region or city,  
TD221-326

Water conservation

For special methods of conservation, see the method  
e. g. TD397, Evaporation control in reservoirs;

TC401-558, Water resources development; TD495-497

Location of leaks in mains

Local, see TD221-326

Periodicals, societies, congresses, etc.

General works

General special

Sources of water supply

Cf. GE651-2598, Hydrology

General works

Rivers, lakes, ponds, etc.

Reservoirs

For special reservoirs, see TD221-326

Dams and their construction, see TC540-558

Sedimentation

Evaporation control

Aqueducts, conduits, etc.

Ground water

Cf. GB1001-1197.5, Hydrology

Artificial recharge

Cf. TD765, Disposal of sewage effluent

Wells

Local, see TD221-326

General works

General special

e. g. Standards

Artesian wells

Well digging and boring

Boring machinery

Including catalogs

Pumps, see TJ900-925

Rainwater (Collection and use)

Water pollution

Cf. GC1080-1572, Marine pollution

RA591-598, Public health

General works

General special

Pollution of streams

For sewage disposal into streams, see TD763; TD77

For pollution by wastes of specific industries, see  
TD899

For effect of oil pollution on marine organisms,  
QH91.8.04

For pollution of special water supplies and bodies  
of water, see TD221-326

Specific pollutants, A-Z

.D4 Detergents, Synthetic

.H4 Heat pollution

.N5 Nitrates

Specific pollutants, A-Z - Continued

- .P35 Pesticides
- .P4 Petroleum
- .R3 Radioactive substances

Water reuse

Water purification. Water treatment and conditioning

- Cf. RA591-598, Public health
- TD745-758, Purification of sewage

General works

General special

- e. g. Nitrification

Special methods

Mechanical treatment

- Screening. Settling. Sedimentation
- Including sedimentation tanks and basins
- Cf. TD455, Coagulation
- Filtration
- Natural filtration
- Sand filtration
- Diatomaceous earth filtration
- Filter basins and plants
- Domestic filters

Chemical treatment

- Chemical precipitation. Coagulation. Flocculation
- Odor control
- Aeration
- Disinfection
- Ultraviolet ray treatment
- Ozone treatment
- Chlorination
- Hypochlorite treatment
- Other methods, A-Z
- Algae control by copper sulphate and other chemicals
- Removal of dissolved minerals. Water softening
- Cf. TD478-480, Saline water conversion
- Fluoridation
- Other methods
- e. g. Color removal, stabilization
- Electrolytic treatment
- Biological treatment
- Other methods

Saline water conversion

- Periodicals, societies, congresses, etc.
- Special countries
- United States (General)
- By state, A-W
- Other countries, A-Z
- General works
- Juvenile works
- General special
- Pocketbooks, tables, etc.
- Estimates and costs
- Desalination plants
- Prefer TD480, Special conversion methods
- For plants in specific locations, see TD478.
- Combined purpose plants
- Nuclear powered plants

Pretreatment of saline waters. Scale  
 Special conversion methods  
   Distillation methods  
   Freezing methods  
   Membrane methods  
   Electrodialysis  
   Ion exchange desalting  
Water distribution systems  
   Local, see TD221-326  
   Aqueducts, see TD398  
   Reservoirs, see TD395  
   General works  
   General special  
     e. g. Smaller plants, fountains, pumps, etc.  
   Waterworks, pumping stations, etc.  
     General works  
     General special  
     Pumping machinery, see TJ900-925  
   Water towers, standpipes, etc.  
     Cf. TH9333-9334, Fire extinction  
   Mains, pipes, valvees, etc.  
     Cf. TK3255, Electrelytic corrosion  
   Flow of water, see TC171-179  
   Water waste and its prevention  
     e. g. Location of breaks or leakage in mains  
     General works  
     General special  
       e. g. Unauthorized users of water  
   Water meters and metering  
     Cf. TC177, Hydraulics (Current meters)  
     General works  
     Special makes of meters  
   Water supply for farms, country houses, etc., see

## SEWAGE COLLECTION AND DISPOSAL SYSTEMS. SEWERAGE

Cf. HD4475-4480, Economic aspects of  
   sewage disposal  
 Industrial wastes, see TD897-899  
  
 Periodicals, societies, congresses, etc.  
 History  
   General works  
   Ancient  
   Medieval  
   Modern  
   19th century  
   20th century  
 Country subdivisions. Table I<sup>1</sup>  
   Including all local departmental reports  
   Under each country:  
     (1) .A1A-Z General works  
       .A6-Z States, provinces, etc.  
     (2) Local (Cities, etc.), A-Z

Table I, see pp. 263-265. Add country number in table to 50

Sewage disposal systems

Treatment, purification, etc.

Sedimentation. Settling tanks - Continued

Sedimentation with coagulation. Chemical precipitation. Flocculation

Filtration

Biological purification. Bacterial purification

Cf. TD746.5, Oxidation ponds

TD764, Self-purification of streams, etc.

Activated sludge method

Electrolytic treatment

Aeration

Disposal of sewage effluent

Disposal on land. Irrigation. Sewage farming

Disposal by dilution. Discharge into streams, lakes, oceans

Self-purification of streams, etc.

Other methods

e. g. Recharge of ground waters

Cf. TD429, Water reuse

Sewage sludge treatment and disposal

Properties of sewage sludge. Tests

Activated sludge

Treatment

Sludge digestion. Digestion tanks

Sludge gas production and utilization

Dewatering. Drying

Special disposal methods

Incineration

Sanitary landfill. Burial

Discharge into streams, ocean

Manufacture into fertilizer, soil builder, etc.

Disposal in unsewered sections

Cesspools, middens, privies, latrines

Earth closets

Septic tanks

Pail systems. Can privies

MUNICIPAL REFUSE. SOLID WASTES

Collection and disposal

Periodicals, societies, congresses, etc.

Directories

Special countries

United States

General works

By region or state, A-Z<sup>1</sup>

Other countries, A-Z<sup>2</sup>

may be assigned two cutters: .x, General; .x2, Local, A-Z,  
C3-32, California

try may be assigned two cutters: .x, General; .x2, Local, A-Z,  
-32, Canada



al special  
rch  
utes and costs  
ection and haulage  
al disposal methods  
n dumps  
unkyards and automobile graveyards  
itary landfills  
ineration. Incinerators  
aste heat utilization  
posting  
or methods  
al wastes and their disposal  
os  
bage  
ncinerators  
mal wastes  
ioactive wastes  
Cf. TD898, Industrial wastes

cleaning. Littor and its removal  
al works  
al countries  
erica  
nited States  
States, A-W  
Cities, A-Z  
Canada  
Provinces, A-Y  
Cities, A-Z  
atin America  
exico  
Cities, A-Z  
entral America  
Special countries, A-Z  
est Indies  
Special islands, A-Z  
outh America  
Special countries, A-Z  
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Special countries, A-Z  
a  
Special countries, A-Z  
rica  
Special countries, A-Z  
ustralia  
tates, A-Z  
w Zealand  
ific islands  
Special islands, A-Z  
s and appliances  
et sprinkling  
rinkling carts  
rol of snow and ice on streets  
e of chemicals  
e. g. Salt  
lighting, see TK4188; TP741  
types of pollution  
pollution, see TD420-427

Air pollution and its control

Economic aspects in HC; United States, HCL  
Canada, HCL20.A4, etc.

Cf. QH545.A3, Influence on plants and animals  
Periodicals, societies, congresses, etc.

Directories

General works

General special

Juvenile works

Research

Special countries

United States (General)

By region or state, A-Z

Other countries, A-Z

Particular air pollutants and their control

Smoke

Cf. TH2281-2285, Chimneys

Dusts, fumes, and mists; particulate matter

Gases

Individual gases and groups of gases, A-Z

.N5 Nitrogen oxides

.S8 Sulphur dioxide

.S85 Sulphur oxides

Odors

Automobile exhaust

Aircraft exhaust emissions

Other pollutants, A-Z

.L4 Lead

.R3 Radioactive substances

Source of pollution, A-Z

.C6 Coffee processing plants

.F6 Foundries

.M4 Metallurgical plants

.P4 Petroleum refineries

.S6 Solvents industry

.S8 Sulphuric acid plants

Measurement. Air sampling and analysis

Noise and its control

Periodicals, societies, congresses, etc.

General works

Special countries

United States (General)

By region or state, A-Z

Other countries, A-Z

Industrial and factory sanitation

Cf. HD3656-3790, Factory inspection

HD7260-7279, Industrial hygiene (Administration)

T54-55.3, Industrial safety

TS193, Plant housekeeping

General works

Industrial and factory wastes

General works

General special

Radioactive waste

Municipal radioactive waste, see TD812

- .C5 Chemical industry
- .C6 Cotton industry
- .D3 Dairy plants. Milk plants
- .D5 Distilleries
- .F5 Fisheries
- .F6 Foundries
- .F7 Fruit processing plants
- .G3 Gasworks
- .M4 Meat industry. Packinghouses. Slaughterhouse
- .M4,5 Metalworking and finishing industry
- Milk plants, see .D3
- Packinghouses, see .M4
- .P3 Papermaking industry
- .P4 Petroleum industry
- .P6 Potato chip industry
- Slaughterhouses, see .M4
- .S8 Sugar industry
- .T3 Tanneries
- .T4 Textile industry
- .W6 Wood industry
- .W65 Woodpulp industry

Sanitary engineering as applied to buildings, see TH6014-6

General works

General special

House drainage, see TH6571-6675

Earth closets, see TD776

Sanitary inspection, see RA565-568

Rural sanitary engineering

Including all small isolated plants for country and farmhouse, etc.

General works

General special

Water supply

Sewage and refuse disposal and drainage

Sanitary engineering of other isolated plants, see TH6057

Low temperature sanitary engineering

General works

General special

Water supply

Sewage and refuse disposal and drainage

Washhouses and public laundries, see TH6057.L3

Periodicals, societies, etc., by language of publication  
International or polyglot  
English  
French  
German  
Other languages (not A-Z)

Congresses

Exhibitions. Museums

Subarranged like TA6

Collected works (nonserial)

Dictionaries and encyclopedias

Directories

History

General works

Ancient

Medieval

Modern to 1800

1800-

Country divisions. Table I<sup>1</sup>

Under each country with two numbers, unless otherwise specified:

(1) General works

Including government publications

(2) Local (Cities, etc.), A-Z

Under United States use 25.5 for special roads not limited to one state

For works on federal aid, prefer HE355.2

Biography

Collective

Individual, A-Z

e. g. .M3 MacAdam

General works

Early to 1800

1800-

Elementary textbooks

Juvenile works

Pocketbooks, tables, etc.

General special

Addresses, essays, lectures

Highway design

Including drawings and designs

Roadside development. Landscaping

Vegetation

Rest areas

Specifications and contracts

Estimates, quantities, and costs

Records, timekeeping, etc.

Accounts and accounting, see HF5686.R6

Study and teaching

Materials for roadmaking (stone, etc.)

General works

General special

e. g. Road-marking materials

ble I, see pp. Add country number in table to .)

Asphalt mixing machinery and plants  
 Asphalt block  
 Concrete roads and pavements  
 Joints  
 Prestressed concrete  
 Streets  
Sidewalks. Footpaths. Flagging  
 General works  
 Earth, gravel, cinder  
 Wood  
 Brick  
 Stone  
 Cement. Concrete  
 Asphalt  
 Other, A-Z  
 Curbs. Curbstones  
 Bicycle paths and tracks  
 Equestrian roads  
 Trails  
 Racetracks (Construction)  
 Laws and legislation  
 General works  
 Country subdivisions. Table I<sup>1</sup>  
 Cf. HE355-368.5, Traffic engineering. By c  
 Hauling tests. Traction tests

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For Table I, see pp. 263-265. Add country number in table

- Periodicals and societies, by language of publication
- 1 English
  - 2 French
  - 3 German
  - 4 Other languages (not A-Z)
  - 5 Congresses
  - 6 Exhibitions. Museums
    - Subarranged like TA6
  - 7 Collected works (nonserial)
  - 9 Dictionaries and encyclopedias
  - 12 Directories, etc.
    - Directories of railroads, see HE2721, 2804, etc.
    - Directories of purchasing agents, see TF359
    - Directories of supply dealers, see TF355
  - History
    - 15 General works
    - 16 Antiquities
      - Including early curiosities of railroad development
      - e. g. horse railroads
    - 19 Nineteenth century
    - 20 Twentieth century
    - 126 Country divisions. Table I<sup>1</sup>
      - Under each:
        - (1) General works
        - (2) Special railroads, A-Z
      - e. g. TF25, Special roads, United States
      - TF64, Special roads, Great Britain
      - TF80, Special roads, Italy
      - Only technical works, including works on the physical aspects of individual roads, to be classed here
  - Biography
    - 139 Collective
    - 140 Individual, A-Z
  - General works
    - 144 Early to 1850
    - 145 1850-
    - 146 Elementary textbooks
    - 147 Popular works
    - 148 Juvenile works
    - 149 Pictorial works
    - 151 Pocketbooks, tables, etc. (General)
    - 153 General special
    - 155 Addresses, essays, lectures
  - Study and teaching
    - 171 America
      - 173 United States
      - 176 Canada
      - 179 Latin America
    - 180 Europe
    - 181 Asia
    - 182 Africa
    - 183 Australia, etc.

For Table I, see pp. 263-265. Add country number in table to O

Technical works only

Cf. HE1613-1614, location, right of way, etc. (Economic aspects)

TF215, Railroad surveying (General)

Estimates, costs, etc.

Specifications and contracts

Model railways

Safety measures, see TF610-640

## RAILWAY CONSTRUCTION

General works

Including reconnaissance, surveying, and location

General special

Railroad engineering (Fieldbooks, tables, etc.)

Preliminary operations

Railroad surveying (General)

Reconnaissance

Preliminary surveying

Plotting, profiles, etc.

Location

Curves and turnouts

Transition spiral, etc.

Earthwork

Including rock cuttings

Tables, calculations, etc.

Excavating machinery, steam shovels, etc.

Catalogs

Tunnels and tunneling

General special

Including special methods of tunneling, e. g. Pressurized tunneling

Maintenance and operating of tunnels

Ventilation

Lighting

Special tunnels, A-Z

Permanent way. Superstructure. Roadway. Track

Cf. TF530-548, Maintenance and repair

General works

General special

Grades

Gage

Drainage

Tracklaying machinery

Details of the permanent way

Roadbed. Ballast

Ties. Sleepers

Wood

Iron and steel

Other, A-Z

Tie plates

Rails

Section-books, tables, etc.

Rail fastenings (fishplates, bolts, etc.)

Continuous rails

Crossings

Cf. HE1617-1619, Grade crossings

Railway constructionPermanent way. Superstructure. Roadway. TrackDetails of the permanent way - Continued

Turnouts and curves (Construction)

For location of curves and field work, see TF216

Switches, frogs, etc. Points (English)

Frogs

Guardrails

Railway structures and buildings

Cf. NA6310-6317, Architecture

General works

Accessories to the permanent way

Track tanks

Ashpits, etc.

Y tracks

Turntables

Transfer tables (Chariote transbordeurs)

Fences, cattle guards, snow guards

Viaducts, bridges, etc.

Culverts, small bridges, cattle passes, etc.

Trestles, see TG365-370

Buildings, etc., other than structures enumerated above

Water columns, cranes, and pipes

Sand plants and bins

Coalsheds and coaling plants

Enginehouses. Roundhouses

Shops

Depots and stations

Yards and terminals

Special places, A-Z

Railway docks

Railway ferries

RAILWAY EQUIPMENT AND SUPPLIESGeneral works

Periodicals, societies, etc.

Treatises

General special

e. g. Standardization

Railway machinery and tools

Directories of dealers and manufacturers

Catalogs of dealers and manufacturers

Including reports, histories, etc. of individual firms

Cf. TJ625, Locomotives

Directories of purchasing agents

Inspection. Testing

Specifications

Railway patents

Electrical equipmentRolling stock and car buildingRolling stock of special places and roads, see TF21Car service, see TF600-606Locomotives, see TJ603-695

Periodicals

Dictionaries and encyclopedias

General works

Including atlases

Railway shops and shop practice. Repair shops

Cf. TJ680-683, Locomotive shops

General special



Details of car construction

Car trucks  
Wheels  
Axles  
Bearings and lubrication  
Springs  
Shock absorbers  
Car bodies  
Couplers  
Draft gear  
Brake gear  
Airbrakes  
Westinghouse  
New York  
Car furnishings  
Car sanitation, heating, lighting, and ventilation  
Lighting  
General works  
Electric lighting  
Drinking water  
Air conditioning  
Varieties of cars  
Passenger cars  
General works  
Parlor cars  
Sleeping cars  
Dining cars  
Cf. TF668, Service  
Baggage cars  
Mail cars  
Freight cars  
Periodicals  
General works  
Stock cars  
Refrigerator cars  
Coal and ore cars  
Tank cars  
Gabooses, tool cars, etc.  
Derrick cars and wrecking cars  
Steam-motor cars  
Gasoline-motor cars  
Diesel-motor cars

RAILWAY OPERATION AND MANAGEMENT

Periodicals and societies, by language of publication  
Engineering and construction, see TF1-4  
English  
French  
German  
Other languages (not A-Z)  
General works  
Cf. HE1601-1813, Economic aspects  
Cold weather operation  
General special  
Organization, etc., of staff and force  
General works  
General special  
Wage tables, see HF5706.R3  
Accounting, see HE2241

General works

Special roads

Maintenance and repair of permanent way

Roadmasters' and trackmasters' regulations

General works

Special roads

Inspection. Testing

Roadmasters' and trackmasters' manuals, etc.

Protection against snow. Removal of snow and ice

Removal of wrecks

Removal of weeds. Weed-burners, etc.

Ditches

Trains

Including the movement of trains and cars

Train resistance

Cf. TF962, Car resistance

Train speed

Tables

Trainload. Ton-miles and coal computations

Train running

Trainmen's manuals, etc.

Trainmen's wage tables, see HF5706.R3

Train rules

Right-of-way

Train dispatching

Time schedules, etc., for making timetables

Timetables themselves, in HF

Special kinds of trains

Class named trains and trains of special roads

TF21-126

Passenger

Fast express

Freight

Piggyback trains

Other special kinds

Terminal and yard management

Switching of cars. Shunting

Making up trains

Roundhouse management

Cars (Utilization and care)

Cf. HE1821-2575, Railway economics

TF371-498, Car building

Car interchange systems. Car service association

Periodicals, societies, etc.

General works

Safety measures, signals, etc.

Airbrakes, etc., see TF420-430

Signaling

Including telegraphic equipment

General works

General special

Tests of vision, color blindness, etc.

Hand signals, etc.

- systems
  - Cf. TK5569.T7, Train telegraph
- Special systems
  - e. g. Bopp's
- Block systems
- Interlocking systems
- Automatic train control
- Other systems
  - e. g. Coded centralized traffic control
- Catalogs of signaling appliances
- Railroad accidents, see HE1779-1795
- Traffic operations
  - Station management
  - Passenger traffic
    - Cf. HE2561-2591, Economic aspects
  - Passenger tickets
  - Baggage
  - Express
  - Freight
    - Classification, see HE2123, 2311, etc.
    - Rate tables, etc.
    - Prorating and adjustment tables, etc.
    - Refrigerator service
- Dining car service
  - Periodicals, societies, etc.
- General works

#### LOCAL AND LIGHT RAILWAYS

- General works
  - Special places, see TF21-126
- General special
  - Narrow gage railways
    - Cf. TF244, Gage
    - Special places, see TF21-126
- Industrial railways
- Mountain railways
  - Cable
    - Cf. TF835, Street railways
- Rack
- Gravity
  - Special railways. By place, A-Z
- Atmospheric railways
- Suspended railways
  - Cf. TJ1385-1387, Cableways, Telpherage
- Single-rail railways
- Miscellaneous and curious railways
- Municipal and street railways. Interurban railways
  - Periodicals, societies, etc.
- Directories
- General works
- General special
- Rapid transit question
  - Cf. HE5351-5600, Interurban electric railways (Economic aspects)
  - General works (Technical)
  - Special places, see TF721-826
- Rolling stock, track, and equipment of street car systems
  - TF863-952

3 Cable railways  
 18 Cf. TF682, Mountain railways  
 40 Compressed air railways  
 41 Elevated railways  
 45 Special places, A-Z  
 47 Underground railways. Subways  
 50 Special places, A-Z  
 51 Freight subways  
 Special places, A-Z

### ELECTRIC RAILWAYS

Special places, see TF1021-1126

55 Periodicals and societies, see TF701  
 57 General works  
 General special  
 Electrification of steam railroads  
 58. A4A-Z General works  
 .A5-Z Special countries, A-Z  
 59. A-Z4 Special cities (Terminals, etc.), A-Z  
 .Z5A-Z Special railroads  
Construction  
 63 Power production and distribution  
 Cf. TK1191-1831, Electric power plants  
 65 Roadbed  
 70 Track  
 72 Rails  
 73 Rail bonds, etc.  
 75 General special  
 80 Power transmission systems  
 85 Trolley (overhead wiring)  
 90 Third-rail  
 95 Underground conduits  
 000 Other systems  
 012 Losses in transmission. Stray currents  
 020 Cars. Street cars. Interurban cars  
 025 Car wiring and equipment  
 030 Controllers  
 035 Railway motors  
 040 Car lighting, headlights, etc.  
 045 Car heating  
 047 Safety devices  
 e. g. Car fenders  
 049 Details of car construction  
 e. g. .A9 Axles  
 .B7 Brakes  
 .W5 Wheels  
 Supplies  
 050 General works  
 051 Directories  
 052 Catalogs

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For Table I, see pp. 263-265.

men's manuals  
Airbrake instructors, see TF420  
ice rules and regulations  
ccial companies  
ght service  
ic locomotives  
TN337, Electric mine locomotives  
ic railways - Special countries. Table I<sup>1</sup>  
be used for technical descriptions of special systems

3-265. Add country number in table to 1000

Exhibitions. Museums

Subarranged like TA6

Collections

Dictionaries and encyclopedias

Directories

History

General works

Ancient

Medieval

Modern

Nineteenth century

Twentieth century

Country divisions. Table 1<sup>1</sup>

Under each:

(1) General works

(2) Special places and special bridges

e. g. United States

23 General works

24 States, A-W

25 Special places and special bridges  
.N5A2 New York. Report of Commission  
of Bridges

.N53 New York. Brooklyn Bridge  
(Suspension)

.N57 Niagara Falls. Suspension B.

.N58 Niagara Falls. Cantilever B.

.S15 St. Louis Bridge (Steel arch)

.W31 Washington, D. C. Aqueduct

Canada

26 General works

27.M82 Montreal. Victoria Bridge (Tubular)  
Great Britain

64.D86 Britannia Bridge, Menai Strait  
(Tubular)

.F7 Forth Bridge (Cantilever)

.L84 London. Tower Bridge

France

72.P23 Paris. Alexander III Bridge

Biography

Collective

Individual, A-Z

General works

Early to 1800

1800-

Elementary textbooks

Juvenile works

Pictorial works

Pocketbooks, tables, etc.

General special

Addresses, essays, lectures

Catalogs of bridge building companies

For Table 1, see pp. 263-265. Add country number in table to

- United States
  - States, A-W
  - Cities, A-Z
- Canada and Newfoundland
- Latin America (General)
- Mexico
  - Central America
  - Special countries, A-Z
- West Indies
  - Special islands, A-Z
- South America
  - Special countries, A-Z
- Europe
  - Special countries, A-Z
- Asia
  - Special countries, A-Z
- Africa
  - Special countries, A-Z
- Australia and New Zealand
  - Special colonies, A-Z
- Pacific islands
  - Special islands, A-Z
- Theory of structures as applied to bridges
  - Including loads, stresses, and strains
  - Structural dynamics. Vibration
  - Tables, calculations, etc.
  - Graphic statics in bridge engineering
- Bridge design and drafting
  - Cf. TGL60, Plans
  - Pin proportioning
  - Wind pressure
  - Snow and ice loads
- Bridge testing
- Models of bridges
- Bridge specifications and contracts
- Bridge estimates. Quantities and cost
- Bridge erection, superintendence, maintenance and repair
- Bridge foundations
- Abutments and retaining walls for bridges
- Floors
- Bridge details. (Bearings, etc.)
- Special types of bridges
  - Arched bridges
    - General works
    - Masonry bridges
    - Concrete bridges
    - Reinforced concrete bridges
  - Beam and girder bridges
    - Including the use of beams and girders in bridges
    - Continuous girders
      - Cf. TGL13-416, Continuous Beams
    - Plate girders
- Trestles
  - Wood
  - Concrete and stone
  - Iron

Suspension bridges  
Metal arches and metal arch bridges  
Continuous girder bridges  
Reinforced concrete bridges  
Metal bridges  
Prefabricated bridges  
Cf. UG335, Military bridges  
Ice crossings, ice bridges, see TE247  
Bridges for special uses  
Movable bridges. Drawbridges  
Highway bridges  
Footbridges  
Park and ornamental bridges  
Ferry bridges  
Railway bridges  
Cf. TF280-282, Viaducts, culverts, etc.  
Military bridges, see UG335  
Bridge accidents



icals and societies, by language of publication  
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 itions. Museume  
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 cted works (nonserial)  
 onaries and encyclopedias  
 ers' and contractors' bulletins  
 rices, permits, contracts, etc.  
 ories of building supply companies, builders, and  
 ontractors  
 ted States cities, A-Z  
 ry and description  
 eral works  
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 Including primitive construction  
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 orn to 1800  
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 ntry divisions. Table I1  
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 ividual, A-Z  
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 y to 1850  
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 msntary works  
 ular works  
 enile works  
 etbooks, tables, etc.  
 Cf. TA151, Engineering pocketbooks  
 TA685, Iron and steel construction  
 TH434-437, Estimates, quantities and costs  
 eral special  
 e. g. Dangerous structures, safety of exit, moving of  
 structures, cold weather conditions  
 resses, essays, lectures  
 lding as a profession  
 and teaching  
 minations, questions, etc.  
 cial schools  
 ited States  
 Correspondence schools  
 ther countries. By country and city, A-Z  
 nication of building information  
 ormation services  
 ing laws, legislation, etc.  
 F. TH439, Building inspection  
 TH9500-9599, Fire prevention, etc.  
 eral works

cial countries

Under each:

- (1) Collections. Serials
  - (2) General reports, hearings, etc. By date
  - (3) Official codes, etc. By date
  - (4) Unofficial works. By author, A-Z
- e. g. 224.N42 Rhode Island building code  
New York (City)
- 225.N52 Codes. By date
- .N56 Nonofficial. By author, A-Z
- 242.G2-5 Germany
- .G2 Collections. By date
- .G23 Hearings. Reports. By date
- .G25 Codes. By date
- .G27 Nonofficial, A-Z
- Baden
- .G3 Collections
- .G303 Reports, etc.
- .G305 Codes
- .G307 Nonofficial
- .G331-337 Bavaria
- .G37-377 Hesse
- .G4-43 Prussia
- .G43 Nonofficial
- .G44-447 Saxony
- .G48-487 Württemberg
- .G487 Nonofficial
- .G5 Cities
- London
- .G72 Codes
- .G74 Reports, etc.

America

United States

States, A-W

Cities, A-Z

Canada

Latin America

Mexico

Central America

Special countries, A-Z

West Indies

Special islands, A-Z

South America

Special countries, A-Z

Europe

Special countries, A-Z

Asia

Special countries, A-Z

Africa

South Africa

Special countries, A-Z

Australia and New Zealand

Special colonies, A-Z

Pacific islands

Special islands, A-Z

Planning of the subdivision.

Cf. TD160-167, Planning and laying out of cities

building site

Prevention of soil erosion

Building standards

Specifications for special types of building, see

TH4311-4970

## Drawings

e. g. How to read plans

Cf. T379, Blueprint reading

TH2031, General details

Bookkeeping, etc., for the builder, see HF5686.B7

Estimates. Measurements. Quantities and cost

General works

Early to 1890

1890-

General special

e. g. Electronic data processing

Management of the construction site. Superintendence

building construction

Building inspection

Building failures, errors, defects, etc.

Cf. TH9025-9092, Protection of buildings

Building accidents and their prevention

Building companies

Circulars, prospectuses, etc.

Catalogue of building supplies (General)

Cf. TH1655, Metalwork

TH2055, Building fittings

Architectural engineering. Structural engineering of

Cf. TH1111, Wooden buildings

Treatise

Elementary textbooks

Pocketbooks, tables, etc.

Modular coordination

Cf. NA2700-2725, Drafting

NA2750-2790, Design

Wind pressure

Snow loads

Insulation, see TH1715

Architectural acoustics, see NA2800

Soundproof construction, see TH1725

Construction equipment in building

Including machinery used in building construction

Tools and implements (General)

Cf. TH5618-5619, Carpenters' tools

TH6299, Plumbers' tools

## SYSTEMS OF BUILDING CONSTRUCTION

Cf. TA401-492, Building materials

Fire-resistive or fireproof building construction

Cf. TH9057-9092, Lightning rods

TH9111-9275, Fire prevention

TP265, Chemistry of fire and fire prevention

Periodicals, societies, etc.

General works

General details

e. g. Fire door and shutter, wire glass window

Fire escapes, see TH2274

Systems of fireproofing and special materials

Including catalogues

Wood and other organic material

e. g. Impregnated wood; fire-retardant coatings

Systems of building constructionFire-resistive or fireproof building constructionSystems of fireproofing and special materials - Conti.

Asbestos

Earthenware, brick, tile, terra-cotta

Including combinations with steel, etc.

General and solid forms

Hollow earthenware

Cement and concrete

Including reinforced concrete

Cf. TH1461-1501, Concrete building construction

Reinforcing materials

Tile-concrete combination systems

Tests of fire-resistant construction (General). Fire testingTests of special constructions with the special s.  
General works

Including artificial tests

Tests of materials

Tests in fires

General conflagrations, not artificial tests

Earth movements and building. Subsidence, etc.

Earthquakes and building

Bombproof construction. Bombproof shelters. Fallout shelters

Cf. TH7392.A8, Heating and ventilation of atomic bomb shelters

Waterproof construction, see TH9031

Prefabricated and portable buildings

Cf. NA8480, Architecture

Air-supported structures

Wood building construction

Cf. TA666, Wooden construction (General)

Scaffolding, see TH5281Centering and centers, see TH5591Carpentry and joinery, see TH5601-5691Floor framing, see TH2311Roof framing, see TH2393-2398

Architectural engineering of wooden buildings

Architectural woodwork

Cf. TH8581, Decorative woodwork

Catalogue

Masonry building construction

Cf. TA670-683.9, Masonry construction (General)

TH5311-5591, Practical masonry

Stone building construction

Stone construction (General), see TA676Stonemasonry and stonecutting, see TH5401-5421Artificial stone building construction, see TH145

Brick building construction

Brick construction (General), see TA679Bricklaying, see TH5501-5511Terra-cotta and hollow tile building construction, see TH1077-1083

Pisé, earth-wall or pressed-earth building construction

Ice and snow building construction

Artificial stone building construction

Concrete building construction. Cement and stuccoConcrete construction (General), see TA680-681

Contracts and specifications

Concrete block building construction

Concrete building construction. Cement and stucco - Con.

Reinforced concrete construction

Reinforced concrete construction (General), see TA683

Reinforced concrete fireproof building construction,  
see TH1087

Staff building construction. Papier mâché, etc.

Fiber building boards

Cf. TH1715, Insulation

Glass construction

Cf. TA450, Glass (Structural material)

Iron and steel building construction

Iron and steel construction (General), see TA684-685

General works

Before 1890

1890-

Juvenile works

Pocketbooks, tables, etc.

Catalogs of buildings

Forms of construction

Space frame structures

Architectural metalwork. Sheet metal, castings, etc.

Gratings, see TH2273

Catalogs (General)

Special materials

Metal sheathing. Metal lathing

Reinforcing materials in fireproof building construction

see TH1088

Insulation and insulating materials

Including thermal properties of walls

Cf. TP493, Cold storage

Periodicals, societies, etc.

General works

Sheathing papers

Soundproof construction. Noise in buildings

Cf. NA2800, Architectural acoustics

TAILS IN BUILDING DESIGN AND CONSTRUCTION

Structural drawings

Cf. TH431, Drawings (General)

Catalogs of building fittings (General)

Cf. TH1155, Architectural woodwork

TH1655, Architectural ironwork

TH6010-6013, Building fittings and their installation

Foundations

Works from the engineering standpoint

Cf. TH2221, Foundation walls

TH5201, Practical construction

Roofs

Arches and vaults

Vaults

Roofs

Cf. TH2416-2417, Shell roofs

Towers

Walls

Cf. TH5311-5511, Masonry

Foundation walls

Walls above surface

Including siding

Walls above surface - Continued

Exterior walls

Curtain walls. Cladding

Special materials

Brick walls

Clapboard walls

Concrete walls

Sheet metal walls

Cf. TH1651-1675, Architectural metalwork

Wall details

Other special accessories

Columns. Capitals

Catalogs

Abutments

Fixed ladders

Window and door openings and their fittings

e. g. Lintels, plate-bonds, sills, reveals, caps, trimmings

Window openings

Bay and bow windows

Windows and doors and their fittings

Cf. TH1069, Fire doors and shutters

TH1155, Woodwork catalogs

TH9720, Burglar proof construction

General works

Catalogs of door and window fittings

Sashes. Frames

Gratings. Window guards

Fire escapes and fittings

Windows

Skylights, see TH2486-2487

Shutters, blinds, screens, and other window fittings

Doors. Sliding and folding doors. Screen doors

Door fittings. Locks, knobs, etc.

Chimneys and flues

Cf. TH4591, Chimneys for powerplants

TJ330-335, Boiler plant engineering

Smoky chimneys and their remedy

Cf. TD884, Smoke prevention

Soot removal

Fireplaces, see TH7421-7434

Mantelpieces

Cf. TH1151-1155, Architectural woodwork

Framing (House framing, etc.)

Cf. TH1101, Wood building construction

TH1610-1625, Iron and steel building construction

Floor framing

Cf. TH2521, Floors and flooring

Roof framing, roofs and roofing

Cf. TH5619, Steel square and its uses

General works

Roof trusses

Roof framing. Rafters, etc.

Special tools and appliances

e. g. Rafter gages

Rafter tables, etc.

Roofs

General works

Mansard roofs

## of framing, roofs and roofing

### Roofs - Continued

- Saddle roofs
- Flat roofs
- Shell roofs
  - Periodicals, societies, etc.
- General works
- Suspension roofs
- Roofs for special parts of the building
  - Bay window roofs
  - Porch and veranda roofs

### Roofing

- Periodicals, societies, congresses, etc.
- General works
- Catalogs of roofing (General)
- Thatch roofing
- Board roofing
- Shingle roofing
- Stone roofing
  - Slate roofing
- Concrete roofing
- Tile roofing
- Textile roofing
- Composition roofing
  - General works
  - General special
    - Including tar, felt, gravel, slag, etc.
- Metal roofing
  - Cf. TH1651-1675, Architectural ironwork
  - TS600, Tinsmithing
  - General works
  - Tin roofing. Tin shingling
  - Iron and steel roofing
  - Lead and copper roofing
  - Aluminum roofing

### Roof details

- Cf. TH1651-1675, Architectural ironwork
- TH2433, Roofing catalogs
- General works
- Cornices and moldings
  - Cf. TH1151-1155, Architectural woodwork
  - TH2553, Interior cornices and moldings
- Catalogs
- Skylights and ventilators
  - Skylights
  - Ventilators, see TH7683.V4
- Hatchways. Scuttles
- Gutters, eave troughs, down spouts, and conductors
- Finials and bannerets. Vanes

### Floors and flooring

- Cf. TH2311, Floor framing
- TH8541-8542, Tile

### Flooring

- Carpets, rugs, etc., see TS1772-1779.5
- Maintenance and care
- Special types, by material, A-Z
  - .C6 Concrete (Nonstructural)
    - Linoleum, see TS1779.L5
  - .M4 Metal

## ors and flooring

### looring

Special types, by material, A-Z - Continued

.P5 Plastic

Including asphalt and vinyl

.S7 Stone

Tilo (Ceramic), see TH8541-8542

.W6 Wood. Parquetry

lings and centerpieces

Cf. NA2950, Architecture

TH8120-8137, Plastering

titions

ainscots

dings and cornices (Interior)

Cf. TH1155, Woodwork catalogs

TH2482, Exterior cornices

TH8581, Decorative woodwork

living

Mantelpieces, see TH2288

cial rooms

Cellars, hallways, vestibules, dining rooms, verandas,  
closets, attics, etc.

## MAINTENANCE AND REPAIR

Cf. TH4817, Dwellings

TH6013, Maintenance of equipment

TX323, Care of the house (Home economics)

al works

al special

onance

eral works

eral special

r. Rebuilding. Remodeling

eral works

eral special

## INGS: CONSTRUCTION WITH REFERENCE TO USE

ading specifications and construction

individual or named buildings

ic buildings

Cf. NA4170-4510, Architecture

uments, Memorial arches, etc., see NA9320-9425

asolouns, etc., see NA6120-6199

archos

Cf. NA4790-6113, Architecture

nor public buildings, see TH4755-4763

ercial buildings. Office buildings

Cf. HF5521, Store fixtures

NA6210-6280, Architecture

portation buildings, see NA6300-6370; TA1225

llway stations, see NA6310-6317; TF300

ck buildings, see TC355

Ferry houses, see NA6330

age buildings

rehouses

Cf. NA6340, Architecture



Buildings: Construction with reference to use

Storage buildings - Continued

Grain elevators

Cf. NA6350, Architecture

TH4498, Bins (General)

TJ1415-1417, Grain-handling machinery

Coal-handling plants

Cf. TH4498, Bins (General)

TJ1405, Coal-handling machinery

Icehouses (Commercial)

Cf. NA6360, Architecture

Lumberyards, sheds, etc.

Bins (General)

Cf. TH4461, Grain elevators

TH4471, Coal-handling plants

Other storage buildings

Cf. NA6300-6370, Architecture

Factories and mills. Industrial plants

Cf. NA6400-6589, Architecture

Metallurgical plants and furnaces, see TN

Periodicals, societies, etc.

General works

General drawings of factory construction

Underground factories

Textile mills

Breweries

Other special factories and mills

Mine buildings and other structures

Refineries

Powerplants

Chimneys. Smokestacks

Cf. TD884, Smoke prevention

TH2281, Chimneys (General)

TJ330-335, Boiler plant engineering

Educational buildings

Schools, see LB3205-3227; NA6600-6605

Libraries, see Z679

Art museums and galleries, see NA50-4995

Exhibition buildings, see NA6750; TJ391-995

Research buildings. Laboratories

Cf. NA6751, Architecture

Radio stations

Television stations

Hospitals, see RA960-993

Psychiatric hospitals, see RC439-451

Aeylums, see HV

Recreation buildings

Cf. NA6800-6930, Architecture

Other public buildings

Restaurants

Cf. NA7855, Architecture

Baths

Cf. NA7010, Architecture

RA605-606, Public health

Swimming pools

Public comfort stations, see RA607

Clubhouses

Cf. NA7910-7977, Architecture

Houses. Dwellings

Cf. NA7100-8480, Architecture

Periodicals, societies, congresses, etc.

General works  
 General special  
 Handbooks, manuals, etc.  
 Research  
 Amateur construction manuals  
 Standards. Specifications  
 Remodeling  
 Maintenance and repair  
 State of repair. House buyers' guides  
     Cf. HD1379, Popular guides in real estate business  
 Construction in special materials, A-2  
     .A3 Adobe  
     .B3 Bamboo  
     .B7 Brick  
     .C6 Concrete block  
     .P7 Precast concrete  
     .R4 Reinforced concrete  
     .S55 Sod  
     .S6 Soil cement  
     .W6 Wood  
 Special methods of construction, A-2  
     .P7 Prefabricated  
     .S5 Slab-on-ground  
 Special types of houses  
     Cf. TH4920, Farmhouses  
     Apartment houses  
     Summer homes  
     Country homes  
farm buildings  
     Cf. NA8200-8260, Architecture  
     General works  
     Handbooks, tables, etc.  
     Farmhouses  
         Cf. NA8210, Architecture  
     Barns. Poultry houses  
     Silos  
     Machine-tractor stations  
     Minor buildings. Fences, gates, etc.  
     Garages  
         Cf. NA8348, Architecture  
     Garden toolhouses  
     Fences, gates, etc.  
     Terraces, patios, docks, etc.  
         Cf. NA8375, Architecture

#### CONSTRUCTION BY PHASE OF THE WORK (BUILDING TRADES)

Works from the engineering standpoint, see  
 1-2101

General works  
 Earthwork and excavation in building  
     Operations, tools, etc.  
 Foundation work in building  
     Cf. TA775, Foundations (General engineering)  
     TH2101, Works from the engineering standpoint

## BUILDING CONSTRUCTION

struction by phase of the work (Building trades) - Con.  
Scaffolding in building. Shoring. Staging. Underpinning  
Centering, see TH5591  
Masonry in building

Practical methods, operations, tools, etc.  
Cf. TA425-446, Masonry materials  
TA670-683.9, Masonry construction (General)  
TH1199-1301, Masonry building construction (Engineering)

General works

Treatises  
Elementary manuals  
Addresses, essays, lectures  
General special

Pointing and stucco

Stonemasonry and stonecutting

Stone building construction, see TH1201  
Walls, design, etc., see TH2201-2251

Elementary manuals

General special

e. g. Cleaning of stone

Bricklaying in building

Brick building construction, see TH1301  
Walls, design, etc., see TH2201-2251

Elementary manuals

Cement and concrete work, see TA680-683.9

Centering of arches

Scaffolding, see TH5281

Carpentry and joinery

Cf. TH1101, Wood building construction  
TS840-853, Woodworking

Periodicals

General works

Early to 1800

1800-

Graphic treatises

Plates or drawings, with text subordinate  
Beginners' manuals. Elements.

Popular works. Home carpentry

Pocketbooks and tables. Handbooks and compilations  
of rules

Examinations, questions, etc.

Contracts and specifications

Drawing and drawings for carpenter and joiner

Mathematics

Slide-rule calculations in carpentry and joinery

Estimates, quantities and cost, measurements, etc.  
Before 1850

1850-

Tools for carpenters and joiners

Including catalogs

The steel square and its uses

Joinery

Treatises

Elementary manuals

Stairbuilding

General works

Iron, wood, and stone

Stair and handrail joinery. Wooden stairbuilding

Stair joinery

Construction by phase of the work (Building trades)

Carpentry and joinery

Stairbuilding

Stair and handrail joinery. Wooden stairbuilding - Con.

Handrail joinery. Stair railings

Tools and appliances for handrail joinery

Catalogs

Mitering

Moldings, see TH2482; TH2553

Metalworking

Cf. TH1651, Architectural metalwork

Steel-girder riveting, etc., see TA891

## BUILDING FITTINGS AND THEIR INSTALLATION

Including mechanical equipment

Cf. TH2055, Catalogs of building fittings

General works

Maintenance and repair

## ENVIRONMENTAL ENGINEERING OF BUILDINGS.

### SANITARY ENGINEERING OF BUILDINGS

Claes hero works on general and household plumbing, heating, lighting, air conditioning, soundproofing, etc., treated collectively. Class special aspects with the subject, e. g. TH7201-7641, Heating; TH1725, Soundproofing

Periodicals, societies, congresses, etc.

Directories

General works

General special

Reviews, essays, lectures

Design of systems

Contracts and specifications

Building orientation

Installations in special classes of buildings. By class, A-Z

.A6 Apartment houses

.F3 Factories

.L3 Laundries, Public

.O4 Office buildings

.R4 Restaurants, lunchrooms, etc.

.T3 Theaters

Installations within special buildings. By name, A-Z

e. g. New Netherlands hotel

Sanitary crafts

General works

Early to 1875

1875-

Textbooks

Study and teaching. Schools

Legislation

Including household plumbing  
Pipefitting, see TH6703-6729

Periodicals, societies, etc.

Collected works (nonserial)

Directories

History

Special countries

United States

States, A-W

Cities, A-Z

Other countries, A-Z

General works

Early to 1875

1875-

Textbooks

Popular works. Juvenile works

Pocketbooks, tables, etc.

General special

e. g. Vocational guidance

Addresses, essays, lectures

Examinations, questions, etc.

Study and teaching

Special schools

United States

Correspondence schools

Other countries. By country and city, A-Z

Laws and regulations

General

America

North America

United States

General

States, A-W

Cities, A-Z

Canada

Mexico, Central America, West Indies

South America

Europe

Asia

Africa

Australia and New Zealand

Pacific islands

General special

Contracts and specifications

Drawing and drawings

Bookkeeping for plumber and pipefitter, see HF5686.P7

Estimates. Measurements. Quantities and costs

Early to 1850

1850-

Superintendence

Inspection

Testing

Cf. TH6617, Testing for leakage

Plumbing fixtures and fitting supplies

Standards

and pipefitting

special

ing fixtures and fitting supplies - Continued

logs of plumbing and fitting supplies

Cf. TH6299, Plumbers' tools

TH6529, Catalogs of water-supply fixtures

TH6589, Catalogs of drainage fixtures

TH6729, Catalogs of pipefittings

of domestic water supply, drainage, etc., see

21-6675

l installations. By name, A-Z

work

TH6681-6685, Maintenance and repair

l works

pipes. Joints. Pipefitting

. TH6703-6729, Pipefitting (General)

bending

t-wiping

g, solder, and fluxes in plumbing

TH6691, Lead burning

' tools and apparatus

TH6255, Catalogs of plumbing fixtures, etc.

in plumbing

c tubes and pipes

of special rooms

oms. Toilet rooms. Lavatories

ublic comfort stations, see TH6515.P9

eral works

eral special. Specifications, etc.

ems

ills. Fixtures

eneral works

Catalogs of bathroom fixtures

asins

aths

Cf. TH6518.B3, Public baths

General works

Shower baths. Sprays

Tubs

Foot baths

Sitz baths

Bidets

oil fixtures

ater closets. Toilets

inals

sh tanks and auxiliary valves, etc.

ry plumbing

ublic laundry plumbing, see TH6518.L3

eral works

tems

ails

ashtubs

en and pentry plumbing

itchen boilers, see TH6563

refrigerator plumbing, see TH6671.R3

ango water-heating, see TH6553-6557

itchen and laundry drainage systems, see TH6661

eral works

atalogs

tems

ails

inke

ing and pipefitting

umbing of special rooms

itchen and pantry plumbing

Details - Continued

Grease traps

Traps (General), see TH6631-6633

umbing of special buildings, A-Z

A6 Apartment house plumbing

F2 Factory plumbing

H8 Hotel plumbing

O3 Office building plumbing

P9 Public comfort station plumbing

S4 Schools, universities, etc.

Tenement house plumbing, see .A6

umbing for special establishments, A-Z

.B2 Bar (saloon) plumbing

.B3 Baths, Public

.C3 Carriage house plumbing

.L3 Laundries, Public

Laundries, Domestic (Plumbing),

see TH6502-6505

.S6 Soda fountain plumbing

Soda water apparatus, see TP635

ter supply

Pumps, see TJ900-925

Cold water supply, see TH6541-6547

Hot water supply, see TH6551-6568

Municipal water supply, see TD201-500

General works

General special. Specifications, etc.

Rural domestic water supply, see TD927

Details

General works

Valves. Faucets

Filters, see TD449

Catalogs of water-supply fixtures

Catalogs of pipefittings, see TH6729

Theory

Domestic means of supply

Water measurement and meters, see TD499-500

ld water supply

General works

Systeme

Flushing systems (Automatic, etc.)

Storage systems. Storage tanks

Fire storage tanks or towers, see TH9332-9334

Details, see TH6528

Hot water supply. Water heaters

General. Tank systems. Cylinder systems

Systems of heating

Systems of supply, see TH6567

General works

Range water heaters

General works

Kitchen plumbing (General), see TH6507

Range boilers, see TH6563

Typee

Details

Water backs

Water heating coils

Thermocouples

Systems of heating - Continued

Steam water heaters

General works

Steam coil tanks

Steam condensation heating tanks

Sea water heaters

Electric water heaters

Solar water heaters

CF. TH310, Solar engine. Utilization of energy  
in sun's rays

Storage of hot water

General works

Heating boilers and supports

Hot water tanks (used with water heaters)

Explosion and their prevention. Kitchen boiler ex-  
plosion

Valves and stop-off cocks

CF. TH390-397, Steam boilers - Safety appliances

Systems of supply

Systems of heating, see TH6552-6561.7

Connections and circulation piping

Special applications of water supply, A-Z

CF. TH111-919, 9365, Connections for fire extinc-

CF. TH111-919, 9365, Connections for fire extinc-

CF. TH111-919, 9365, Connections for fire extinc-

CF. TH111-919, 9365, Connections for fire extinc-

CF. TH111-919, 9365, Connections for fire extinc-

Waste drainage

General works

General special

Catalogs of drainage fixtures, traps, etc.

Catalogs of elbows, bends, etc., see TH6489

Catalogs of pipefittings, see TH6729

Catalogs of plumbing and fitting supplies, see T

Theory

CF. TH111-919, 9365, Connections for fire extinc-

Systems

One pipe system

Two pipe system

Mechanical discharge system

Special systems. By name of patentee or manufacturer

A-Z

Work

Connections

Heating in

Heating for tanks

With compressed air, water, smoke or peppermint

Isolating. Fittings

Catalogs of general drainage fittings, see TH6589

General works

Heating piping (General)

Hot piping, see TH6653

Water piping, see TH6658

Vent piping, see TH6668

Traps and vents. Siphonage

Drain traps, see TH6647

Special types of traps

Ground traps, see TH6512

Steam etc.

Best steam formulas, see TH6646



House drainageDetail. Fittings - Continued

- (6637) Cesspools, see TD775
- (6638) Septic tanks, see TD778
- Elements of drainage system
- 6641 House sewer  
Outside of house, connecting house  
sewer
- 6642 House drain  
Horizontal piping in cellar, rec  
drainage
- 6644 Supports for drains
- 6646 Cleanout forrulos  
Cleanouts (General), see TH663
- 6647 Special drain traps  
Traps (General), see TH6631  
Floor and area drains, see Cellar
- 6649 Fresh air inlets  
Rain leaders, see TH2493  
Soil stack systems  
Draining sewage or sewage and wa
- 6651 General works
- 6652 Soil stack
- 6653 Soil piping  
Waste stack systems  
Draining waste
- 6655 General works
- 6656 Waste stack
- 6658 Waste piping  
Special waste systems  
Cf. TH6671, Special drainage
- 6661 Kitchen and laundry wastes  
Kitchen plumbing, see TH65  
Laundry plumbing, see TH65
- (6663) Laving systems and fixtures, see  
Toilet room plumbing and fixtures
- Vent stack systems
- 6665 General works
- 6666 Vent stack. Roof outlets
- 6668 Vent piping  
Drain piping (General), see TH  
Trap ventilation, see Traps and ven
- 6671 Special drainages  
e. g. .G3 Cellar or basement dra  
.F6 Floor and yard drains  
.R3 Refrigerator drainage
- 6675 Special installations. By name, A-Z  
e. g. The plumbing in Hotel Astor  
Cf. TH6059, Special sanitary insta
- Maintenance and repair of plumbing
- 6681 General works
- 6685 Freezing and thawing of pipes
- 6691 Lead burning. Autogenous soldering  
Soldering in plumbing, see TH6297

Plumbing and pipefitting - ContinuedPipefitting

The installation of piping and fixtures,  
lighting, etc.

Pipefitting for steam and hot water  
TH7467-7597

Plumbing, see TH6293-6295

Gas fitting, see TH6840

6703

General works

6706

Textbooks

6711

Pocketbooks, tables, rules

6715

General special

6721

Estimatee of material and labor

6723

Prices of pipefittings

6729

Catalogs of pipefittings

Cataloge of drainage fixtures, see

Catalogs of gas fixtures, see TH

Catalogs of water supply fixtures

Catalogs of plumbing and fitting

Gas in buildings. Building gas supply

Central heating with gas, see TH7466.

Gas lighting, see TH7910-7915

Gas heating, see TH7405-7406

Gas water heating, see TH6561

Kitchen gas ovens, see TX657.06

Kitchen gas ranges, see TX657.S6

6800

Periodicals, societies, congresses, etc.

6810

General works

6820

General special

6830

Safety measures

6835

Venting for appliances

6840

Piping installation. Pipefitting

6850

Details

6855

Fixtures and appliances

6860

Maintenance and repair. Testing

6865

Catalogs

6870

Meters

6875

Governors. Regulators

6880

Burners

6882

Flame monitors

6885

Ignition devices

Including electric ignitors

6887

Pilot lights

HEATING AND VENTILATION

Classes works which discuss special aspects  
of both heating and ventilation of buildings  
in TH7201-7641, Heating of buildings, etc.  
TH7392.C6, Heating and ventilation of buildings  
Ventilation, see TH7647-7699

7005

Periodicals, societies, congresses, etc.

General works

7010

Early to 1860

7011

1860-

7012

Textbooks

7015

General special

e. g. Climatic factors

- 7082 United States
- 7083 Federal
- 7084 States
- Other countries, A-Z
- Heating engineering. Industrial heating
  - Cf. TH6552-6561, Heating of water
  - TJ255-265, Heat from the mechanical standpoint; heat as a source
  - TP363, Heating, drying, cooling
- 7121 General works
- 7124 Pocketbooks, tables, etc.
- 7135 Stoves, etc., for commercial kitchens
  - Kitchen stoves and ranges, see TX
  - Kitchen boilers, see TH6563
  - Stove heating, see TH7435-7458
  - Stove manufacture, see TS425
- Industrial furnaces
- 7140 General works
  - Furnaces for special uses are classified by field of application, e. g. Textile furnaces; TN677, Metallurgical furnaces; TP841, Kilns; TS2
- 7145 Solar furnaces
  - Cf. TJ810, Solar engines
  - Solar water heating, see TH6561
  - Solar heating of buildings, see TH
- Heating of buildings
  - Including domestic heating
- 7201 Periodicals, societies, etc.
- 7205 Congresses
- 7207 Collected works (nonserial)
- 7209 Dictionaries and encyclopedias
- Directories
- 7212 General works
- 7213 Special localities
- 7215 History
- 7216 Country divisions, A-Z
- General works
  - Early to 1860
  - 1860-
  - Textbooks
  - Popular works. Juvenile works
  - Pocketbooks, tables, rules, etc.
  - General special
  - Addreses, essays, lectures
  - Study and teaching
  - General special
    - 7325 Contracts and specifications
    - 7331 Drawings
    - Estimates. Measurements. Quantities
    - 7335 General works
    - 7337 Schedules of prices
    - 7338 Superintendence
    - 7339 Inspection
    - 7341 Testing
    - 7355 Catalogs of heaters and fixtures (General)
    - 7391 Special rooms. By name, A-Z
      - e. g. Bathroom

7392

Special classes of building. By name,  
Cf. TH7684, Ventilation of special  
buildings

- .A8 Atomic bomb shelters
- .C6 Churches  
Dwellings, see TH7201-7643
- .F3 Farm buildings  
Hospitals, see RA969
- .M6 Mills and factories
- .P8 Prisons
- .R3 Railroad structures and buildings
- .T5 Theatres

7395

Special installations. By name, A-Z  
e. g. United States Capitol  
Ventilating installations, see TH7684  
Heating by special fuels or forms of energy

- Wood heating, see TH7424-7427; TH7428
- Coal heating  
Cf. TH7428-7433, Grate heating  
TH7443-7446, Coal stove heating

7400

- General works
- Oil heating  
Cf. TH7447-7452, Oil stove heating  
TH7466.06, Central heating by

7402

7403

- Periodicals, societies, congresses,  
General works
- Gas heating

7405

7406

- Cf. TH7434, Gas fireplace heating  
TH7453-7457, Gas stove heating  
TH7466.03, Central heating by
- Periodicals, societies, congresses,  
General works

7409

7410

- Electric heating  
Cf. TH7434.5-7, Electric radiant  
TH7638, Heat pump systems
- Periodicals, societies, congresses,  
General works

7413

- Solar heating  
General works
- Local heating

7418

7419

7420

- Radiative heating (Open fires), see TH7428
- Convective heating (Stoves), see TH7428
- General works
- General special
- Theory

7421

7422

- Fuel heating values, see TP315-360
- Radiative heating. Open fires  
General works
- Catalogs of fireplace and grate fires  
Cf. TH2055, Building fittings  
Fireplaces, see TH7425-7427  
Grates, see TH7428-7433

7423

7424

7425

7426

- Charcoal fires. Braziers
- Fireplace heating with wood
- General works
- Fireplaces  
General works
- Special fireplaces. By name of  
Including catalogs

Local heating

Convective heating. Stoves

Oil and gas stove and radiator heating

Gas stove heating - Continued

Details and fixtures, A-Z

.B8 Burners

Stove heating with other fuels. By

e. g. .G7 Grass heating and st

Local heating of special classes of bu

Central heating

Hot water heating, see TH7511-7549

Steam heating, see TH7561-7599

Hot air heating, see TH7601-7635

Heating from central stations, see T

General works

General special

e. g. Gas heating

Theory

Special fuels, A-Z

e. g. .G3 Gas

.O6 Oil

Regulators. Thermostats

Cf. TH7687, Air conditioning

Hydronic systems

Classes here worked discussing both h  
heating combined

Cf. TH6703-6729, Pipefitting

General works

Details for hydronic systems

General works

Special. By name of manufacturer,  
Including histories of manufac

Furnaces and boilers for heating

Hot water furnaces and boilers

Steam furnaces and boilers, see

General works

Testing

Stationary or bricked-in

Movable or independent

Special furnaces and boilers. B  
manufacturer, etc., A-Z

Door and damper regulators

Piping, valves and other fittings

Cf. TH6703-6729, Pipefitting

Air vents, etc.

Radiators

Radiators for hot water heating

Radiators for steam heating, s

General works

Direct radiators and coils

General works

Coils

General works

Flat coils

Wall coils

Radiators

General works

Sectional (cast iron)

Tubular, etc.

Hydronic systemsDetails for hydroRadiators - Con

7490 Direct-indire  
Indirect radi  
7492 General wor  
7493 Box coil ra  
7495 Special radia  
A-Z

Hot water heating

Pipofitting,  
7511 General works  
7512 Pocketbooks, ta  
7513 General special  
7515 Theory

Low-pressure ho  
7518 General works  
7525 Distribution  
Two-pipe sy  
One-pipe sy  
Overhead sy

7529 Special detai  
o. g. Fur

High-pressure h  
7530 General works  
7533 Distribution  
7534 Special detai

e. g. Fur  
7535 Forced circulat

Details or fixt  
7536 General works  
7537 Special. By

Furnaces and  
Furnaces  
hot wat

7538.A1A-Z General wor  
.A2-Z Special. F

7539 Stationary

7540 Movable fun

7541 Door and damp

7542 Expansion tan

7543 Special pipin

7545 Air vents and

7547 Radiators for

Radiators

TH7480-

Special hot wat

(7548) Special class

(7549) Special insta

Steam heating and

Cf. TH6703-67

7561 General works

7562 Pocketbooks, ta

7563 General special

7565 Theory

(7567) Systems of dist

Two-pipe syst

One-pipe syst

Central heating

Hydronic systems

Details for hydronic systems

Radiators - Continued

Direct-indirect radiators. Ventilating r  
Indirect radiators  
General works  
Box coil radiators  
Special radiators. By name of manufactur  
A-Z

Hot water heating and fixtures

Pipefitting, see TH6703-6729

General works  
Pocketbooks, tables, etc.  
General special. Specifications, drawings,  
Theory  
Low-pressure hot water heating (with dome b  
General works  
Distribution  
Two-pipe system  
One-pipe system  
Overhead system  
Special details or fixtures, A-Z  
e. g. Furnaces, boilers, and appurten  
High-pressure hot water heating (with coil  
General works  
Distribution  
Special details or fixtures, A-Z  
e. g. Furnaces, boilers, etc.

Forced circulation systems

Details or fixtures of hot water heating

General works  
Special. By name of manufacturer, etc.,  
Furnaces and boilers  
Furnaces and boilers for both steam a  
hot water heating, see TH7470-7476  
General works  
Special. By name of manufacturer, etc.  
Stationary or bricked-in furnaces and b  
Movable furnaces and boilers  
Door and damper regulators  
Expansion tanks  
Special piping and valves  
Air vents and other fittings  
Radiators for hot water heating  
Radiators for steam and hot water hea  
TH7480-7495

Special hot water heating

Special classes of buildings, see TH7392  
Special installations, see TH7395

Steam heating and fixtures

Cf. TH6703-6729, Pipefitting

General works  
Pocketbooks, tables, etc.  
General special. Specifications, drawings,  
Theory  
Systems of distribution, etc.  
Two-pipe system  
One-pipe system

Heating and ventilation

Heating of buildings

Central heating

Hydronic systems

Steam heating and fixtures

Systems of distribution, etc. - Cont.

Overhead or drop system

Low-pressure steam heating

General works

Gravity systems (water returned to

Condense-waste systems (water disc

General works

Live steam systems (from engine bo

Exhaust-steam utilization system

Special details, A-Z

Cf. TJ444, Oil soparators (Gen

e. g. .B3 Back pressure valv

.C7 Groase separators

High-pressure steam heating

Spocial steam-heating systems. By n

Details or fixtures of steam heating

General works

Special. By name of manufacturer,

Furnaces and boilers

General works

Special. By name of manufacture

Stationary or bricked-in furnace

Movable furnaces

Door and damper regulators

Special piping and valves

Air vents and other fittings

Radiators for steam heating

Special stoam heating

Special classes of buildings, see

Special installations, see TH7395

Warm-air heating and fixtures

General worke

General special. Specifications, draw

Theory

Cold air supply, etc.

Construction

e. g. Johnston, The furnace work m

Cf. TS250, Sheet metalwork

TS600-610, Tinsmithing

Systems

General works

Spocial. By name, A-Z

Details

General works

Special. By name of manufacturer, e

Furnaces and appurtenances

Cf. TH7609, Construction

General worke

Special. By name of manufacturer,

Flues and piping

Registers

Pipe dampers and draft registers

7570

7571

7575

7576

7577

7578

(7580)

7583

7586

7587

7588.A1A-Z

.A2-Z

7589

7590

7591

7593

7595

7597

(7598)

(7599)

7601

7602

7603

7608

7609

7610

7619

7621

7622

7623

7624

7625

7626

7627



Heating of buildings

Central heating

Warm air heating and fixtures - Conti

Spacial warm air heating

Special classes of buildings, see

Special installations, see TH7395

Warm air heating with heated air no  
rooms but removed by convection t

Combination systems

e. g. Warm air and steam

Heat pump systems

Cf. TH7687-7688, Air conditioning

TJ262, Theory

Heating for a community from a single p

Heating pipes and mains

Ventilation of buildings

Periodicals, societies, congresses, etc

History

Special countries

United States

States, A-W

Cities, A-Z

Other countries, A-Z

General works

Early to 1800

1800-

Textbooks

Popular works. Juvenile works

Pocketbooks, tables, and rules

General special

e. g. Use of ozone

Addresses, essays, lectures

Natural ventilation

Natural draft, without fans, etc.

General works

Special systems. By name of manufact

Artificial ventilation

General works. Ventilators

General special

e. g. Upward versus downward venti

Special systems. By name, A-Z

Ventilation - Details, fixtures, etc., A

e. g. .A25 Air curtains

.A3 Air filters. Air wash

.F3 Fans

.L7 Louvers

.P8 Punkas

.R4 Registers and flues

Cf. TH7626, Heating

.V4 Ventilators and chimneys

Special ventilation

Special buildings and facilities, A-Z

.C6 Churches

.D9 Dwellings

.F2 Factories

Hospitals, see RA969

.K5 Kitchens

.M2 Machine shops

.P7 Powerplants

Schoolhouses, see LB3241; LB324

Ventilation of buildings

- 7684 Special ventilation  
Special buildings and facilities, A-Z  
.T3 Theaters
- 7685 Special ventilating installations, A-Z  
e. g. .G8 Great Britain. Houses
- Air conditioning, cooling, etc.
- 7687.A1A-Z Periodicals, societies, etc.  
.A2-Z General works
- 7688 Special classes of buildings, A-Z  
.B3 Bakeries  
.F2-39 Factories  
.F2 General  
.F27 Paper  
.F3 Textile  
.H6 Homes. Dwellings  
.O4 Office buildings  
.P3 Packinghouses
- Dust removal (by pneumatic suction, etc.)
- 7692 General works
- 7694 Clean rooms
- 7695 Special systems. By name, A-Z  
.S6 Sonic coagulation  
.V2 The vacuum system
- 7696 Details. Fixtures, A-Z
- 7697 In special buildings. By type, A-Z  
.B8 Building materials industry  
.C4 Cement industries  
.F2 Factories and workshops  
.F6 Foundries  
.G7 Granite plants  
.O7 Ore-dressing plants  
.R6 Rolling mills  
.T4 Textile factories
- 7698 Special installations. By name, A-Z  
e. g. .S7 Spokane Post Office
- 7699 Other hygienic aspects, A-Z  
e. g. .D4 Deodorization

ILLUMINATION. LIGHTING

Electric lighting, see TK4131-4399  
Gas lighting, see TH7910-7970

- 7700 Periodicals. Societies. Collections
- 7703 General works
- 7710 Pocketbooks, tables, etc.
- 7715 Standards. Specifications
- 7720 Safety measures
- 7723 Shadows
- 7725 General special
- Natural lighting
- 7791 General works
- 7792 Easement of light. Light rights. And
- 7795 Luxfer priems
- 7799 Sidewalk lights

Artificial lighting

- 7900 General works
- Gas lighting
- 7910 General works
- 7915 Popular works. Consumers' guides, Incandescent gas lighting
- 7953 General works
- 7955 Special systems, A-Z
  - e. g. Wolsbach system
- Lighting fixtures
  - Cf. TK4198, Electric lighting fix
- Gas and electric
- 7960 General works
- 7963 Contracts and specifications
- Catalogs
  - To 1880
  - 1880-
- 7965
- 7967
- 7970 Other special, A-Z
- 7975 Special types of buildings, A-Z
  - e. g. .F2 Factories and worksho
  - Hospitals, see RA969.
- Acoustics in buildings, see TH725

DECORATION AND DECORATIVE FURNISHINGS

Technical works for the artisan  
For artistic interior decoration, see

- 8001 Periodicals
- General works
- 8024 Early to 1800
- 8025 1800-
- 8026 Textbooks
- 8031 Pocketbooks, tables, receipts, etc.
- Plastering, calcimining, etc.
- 8120 Periodicals, societies, etc.
- 8131 General works
- 8132 General special
  - e. g. Drawings, estimates, ready re
- Plaster
  - Cf. TP888, Manufacture
- 8135 General works
- 8137 Special plasters, A-Z
  - e. g. .C8 Gypsum plasters
- 8139 Plaster board. Gypsum wallboard
- 8161 Calcimining
- 8181 Whitewashing
- Glazing, painting, wall decoration, etc.
- 8203 General works
- Glazing
  - Cf. TP812, Glazes, enamels, etc.
  - TP823, Technology of ceramic de
- 8251 General works
- 8271 Ornamental, stained, art, or leaded g
  - Cf. NK5300-5430, Art
- 8275 Catalogs
- House painting, see TT300-324
- (8303) General works
- (8321) Exterior painting and material
- (8351) Interior painting and material

Decoratation and decorative furnishinges

Glazing, painting, wall decoration, etc. - Cont

Wall decoration

Cf. NK1700-3505, Art industries

General works, see NK2119

Paperhanging and wallpaper

Cf. NK3375-3496, Art industries

General works

Paperhanging

Wallpaper

Prefer NK3375-3496

General works

Special. By name of manufacturer, A-2  
Hanging burlap, buckram, lincrusta, etc.

Cf. NK3175-3505, Art industries

Tapestrying and tapestry

Cf. NK2975-3096, Art industries

TS1780, Manufactures

Tilelaying and tile

General works

Tilelaying

Tile. Decorative and ceramic tile

Class here works on tile of all materials  
plastic tile, when used for wall and ce  
tion. Class here only works on ceramic  
used for flooring. For other flooring  
see TH2529

Cf. NA3705, Architectural decoration

NK4670-4675, Ceramics

TP837, Manufacture of tile

General works

Special. By name of manufacturer, A-2

Decorative woodwork

e. g. Fretwork, grilles, etc.

Cf. NK9600-9699, Artistic woodwork

TH1151-1155, Architectural woodwork

TH2553, Interior moldings

Parquet floore, see TH2529.W6

Draping and drapery, see TT390

Carpets, rugs, etc., see TS1772-1779.5

PROTECTION OF BUILDINGS

General works

Against damage from natural causes

From dampness. Waterproofing

Cf. TH2493, Guttering

Weathering

Protection of buildings from lightning

Fireproof building construction, see TH1061-1

General works

Treatises

Elementary textbooks

Miscellaneous minor works, addressees, essays,

Sytems of protection from lightning

Special sytems. By name of manufacturer, A-

Including catalogs

Earthquakes and building, see TH1095

Bombproof conestruction, see TH1097

- 9111 Periodicals, societies, etc.  
     Prefer TH9500-9599 for local societies
- 9112 Congresses, conventions, etc.  
     Prefer TH9111 for annual conventions
- 9114 Exhibitions. Museums  
     Subarranged like TA6
- 9115 Collected works (nonserial)
- 9116 Dictionaries and encyclopedias
- History
- 9117 General works  
     Special countries, see TH9501-9599
- Biography
- 9118.A1A-Z Collective  
     .A2-Z Individual, A-Z
- Fire prevention - Study and teaching  
     Cf. TH9225-9237, Engineering
- 9120 General works
- 9123 United States
- 9124 States, A-W
- 9125 Cities, A-Z
- 9127 Other countries, A-Z
- 9130 Research  
     General works
- 9145 Treatises
- 9146 Elements
- 9148 Popular works. Juvenile works
- 9150 Pocketbooks, tables, etc.  
     Cf. HG9715, Manuals for insurance
- 9151 Firemen's manuals
- 9155 Addresses, essays, lectures
- 9157 Examinations, questions, etc.
- (9160) Legislation, see TH219-255; TH9500-9599
- 9176 Inspection. Fire inspectors' handbooks  
     e. g. National board of fire underwriters  
         requirements  
     Cf. HG9711-9717, Fire insurance surveys
- 9180 Investigation of fires
- 9182 Safety measures
- (9190) Theory of fire protection, etc.
- 9198 Spontaneous combustion (in relation to fire)
- Fire insurance engineering  
     Cf. TH1061-1093, Fireproof construction
- 9201 Periodicals, societies, etc.
- 9210 General works
- 9215 Pocketbooks, tables, etc.
- 9220 Addresses, essays, lectures
- 9225 Study and teaching  
     Special schools
- 9230 United States
- 9235 Other countries, A-Z
- 9237 Laboratories
- 9241 Fire prevention (General)  
     Fireproof building construction, see TH1061-1093
- 9245 Appliances, etc.

Fire detection and alarms

Fire alarms

Electric thermostat fire detectors

Fire extinction

Firemen's manuals, see TH9151

Theory

General works

Water supply

General works

Local, see TH9503-9599

Fire streams, nozzle forms, etc.

Cf. TC173, Hydraulics - Orifices

Special methods of fire extinction

Including special apparatus

Water tower systems

For communities

For individual buildings

Automatic systems. Automatic sprinkler syst

Chemical systems. Chemical engines

Cf. TH1073, Fireproof construction (Impr

TH9362, Fire extinguishers

TP265, Chemistry of fire and fire pr

Explosion systems, etc.

General equipment and apparatus

Special equipment with special system

General catalogs of fire department supplies

Fire extinguishers

Fire pumps. Hand pumps (Portable)

Hand pumps (General), see TJ903

Fire hydrants

Vehiclee

Fire engines

Chemical engines, see TH9338

General works

Catalogs

Hand fire engine

Steam fire engines

Gasoline fire apparatus

Fire hose and carts

Hose carts

Hose and nozzles

Fire stream tables, see TH9323

Hook and ladder trucks

Fireboats

Lifesaving at fires

Fire escapes, see TH2274

General works. Drills, etc.

Systems and apparatus

Scaling ladder systems

Rope systems

Tubular bag systems

Net or sheet systems (jumping systems)

Special classes of buildings, see TH9445

Salvage of material during fires

e. g. Protection from water

Fire prevention and extinction in special clas

buildings and facilities, A-Z

.A8 Asylums

.B6 Bowling alleys

.C6 Cleaning and dyeing plants

Fire extinction

- Fire prevention and extinction in special class  
buildings and facilities, A-Z - Continued
- .C65 Computers and computer installations
  - .C7 Cotton gins
  - .D6 Dormitories
  - .D9 Dwellings
  - .E4 Electric powerplants
  - .E45 Electronic data processing departments
  - .F35 Farms
  - .G3 Garages
  - .G7 Grain elevators
  - .H3 Hangars
  - .H7 Hospitals
  - .H75 Hotels
  - .L5 Libraries
  - .L8 Lumberyards
  - Mills and factory buildings
  - .M4 General works
  - .M43 Chemical industries
  - .M45 Flour mills
  - .M5 Textiles
  - .M6 Woodworking industries
  - .M8 Museums, historic buildings, etc.
  - .N3 Navy yards and naval stations
  - .O4 Office buildings
  - .P4 Petroleum refineries
  - .P5 Piers
  - .P8 Public buildings
  - .S3 School buildings
  - .S8 Stores
  - .T2 Tanneries
  - Theaters
  - .T3 General works
  - .T4 Motion-picture theaters
  - .T5 Motion-picture films in storehouses,
  - .W2 Warehouses

Fire prevention and extinction in special materials

- .C5 Chemicals
- .C7 Cotton
- .H9 Hydraulic fluids
- .I47 Inflammable materials
- .I5 Inflammable liquids
- .M3 Magnesium
- .P4 Petroleum

Private fire departments for individual establishments

Fires

General works. Descriptions of the great con-  
Cf. TN9148, Popular works

Special fires. By city, A-Z

Technical reports only. For popular descriptions  
D-F, Local history

Fires in mines, see TN315

Forest fires, see SD421

Protection from fire in special countries and cities

fire departments. Firemen's associations

General collections

America

North America (United States and Canada)

Protection from fire in special countries and cities. City  
fire departments. Firemen's associations  
North America (United States and Canada) - Continued  
United States

Special states, A-W

Including works on separate counties

Subdivide like TH9505.A1 without use of 0

e. g. .E6 District of Columbia

.N7 New York State

.N71 State fire marshal's report

Special cities, A-Z

Divided like the following, where .A1 is taken  
for an example:

General works, histories, etc.

.A1A2-5 Official works

.A1A6-Z By author, A-Z

.A101 Regular reports of the fire department or  
fire commissioner, chief engineer, super-  
intendent, fire marshal, etc.

.A102 Special bureau reports. Fire patrol bureau  
reports

.A103 Special reports and petitions. By date

.A104 Reports of commissions, committees, investi-  
gations. By date

.A105 Laws, ordinances, regulations

.A106 Manuals and lists of alarm stations or boxes

.A1065 Examinations. Admission to fire service  
(Civil service, etc.)

.A1068 Pensions, relief, etc.

.A107 Fire companies. Conventions, etc.

.A1071 Paid companies. History, etc.

.A1074 Volunteer companies. Constitution, by-laws  
history, etc.

.A1077 Veteran associations

.A108 Local fire equipment. Engines, enginehouse, etc.

.A109 Various unofficial publications

Examples:

.B6301 Birmingham, Alabama. Fire Department. Annual  
report

.B701 Boston. Fire Department. Annual report

.N505 New York. Fire Department. Laws and  
ordinances

.S2074 St. Louis. Volunteer fire department  
Reports of departments of public safety (fire,  
police, etc.) are preferably classed in JS13

Special countries other than United States

Under each (except as otherwise specified):

.A1-5 General works

.A6-Z Local, A-Z

Canada

General works

Provinces, A-Z

Special cities, A-Z

Mexico

Central America

Special cities, A-Z



Protection from fire. Fire prevention and ext.  
Protection from fire in special countries and  
fire departments. Firemen's association  
Special countries other than United States

West Indies

General works  
 Special islands, A-Z  
 Special cities, A-Z

South America

Argentine Republic  
 Bolivia  
 Brazil  
 Chile  
 Colombia  
 Ecuador  
 Guiana

Guyana

Surinam

French Guiana

Paraguay

Peru

Uruguay

Venezuela

Europe

Groat Britain. England

England. Cities, A-Z

Ireland

Scotland

Wales

Austria

Special cities, A-Z

Belgium

Denmark

France

Germany

Special cities, A-Z

Greece

Holland

Italy

Norway

Portugal

Russia

Spain

Sweden

Switzerland

Turkey

Other countries, A-Z

Asia

China

India

Japan

Persia

Asia Minor

Siberia

Other countries, A-Z

Africa

Egypt

Other countries, A-Z

Australia

New Zealand

	fire departments. Firemen's a
	<u>Special countries other than Uni</u>
9599	Pacific islands
	Protection from burglary, sabotage, ,
	Cf. HV6646-6665, Theft
	HV8290, Guards, watchmen, et
9701	Periodicals, societies, congresses
9705	General works
9720	Burglar proof construction
9725	Details, A-Z
	.W5 Window guards
9730	Protection equipment and devices
9734	Safes and vaults
9739	Detection and alarm equipment.
9745	Security of special buildings, A-Z
	.F3 Factories

4	Other languages (not A-Z)
5	Congresses
6	Exhibitions. Museums
	Subarranged like TA6
7	Collected works (nonserial)
9	Dictionaries and encyclopedias
	Directories
	For directories of makers and dealer supplies, etc., <u>see</u> TJ1170
11	General and United States
12	United States. By state, A-W
	Under each:
	.x General works
	.x2 Local, A-Z
13	Other countries, A-Z
14	Philosophy of machinery
	History
15	General works
16	Ancient
17	Medieval
18	Modern
19	Nineteenth century
20	Twentieth century
21-126	Country divisions. Table J <sup>1</sup>
130	Special companies (History, description, Biography
139	Collective
140	Individual, A-Z
	<u>General works on mechanical engineering</u>
144	Early to 1800
145	1800-
146	Elementary textbooks
147	Popular works. Juvenile works
148	Laboratory practice and student manual
	<u>See also</u> Engineering laboratories,
151	Pocketbooks, rules, tables, etc.
153	General special
	e. g. Power sources, costs, etc.
155	Addresses, essays, lectures
157	Mechanical engineering as a profession
158	Study and teaching
159	Problems, questions, etc.
160	Communication in mechanical engineering
163	Mechanical and electrical engineering
164	Power plants (General)
	Cf. TJ395-412, Steam
	TK1191-1541, Electric
	TK4399.P6, Electric lighting

	Mechanics applied to machinery. Dynamics
170	General works
173	General special
	e. g. Work diagrams
175	Principles of mechanism. Kinematics of machinery
177	Vibration of machinery
	<u>Mechanical movements</u>
181	General works
	Special movements and devices
.3	Perpetual motion
.5	The wheel
	Belt gearings, belts, pulleys, etc., <u>see</u> TJ1
182	Links and link motion. Cranks
183	Hooke's and other link couplings
.5	Rolling contact
	<u>Toothed gears. Gearing</u>
184	General works
185	Tables, lists, etc.
186	Laying out gear teeth. Odontographs
187	Gear-cutting machines
188	Catalogs
	Special gears
189	Spur gears
190	Racks (Racks and pinions)
191	Annular gears
192	Stepped, twisted, and helical gears
193	Bevel gears
194	Miter wheels
196	Screw bevel gears
	Screw gears, <u>see</u> TJ192
200	Worm gears
202	Other forms of gears
	e. g. Internal gears, reduction gears
204	Transmission gears
	Cf. TL260, Automobiles
206	Cams
208	Vibrators
209	Gyroscopes
	Cf. QA862.G9, Analytic mechanics
	TL589.2.C58, Compass (Gyroscope)
210	Springs
211	Mechanical devices and figures. Automata. Ingenious mechanisms
	Cf. ML1050-1055, Automatic musical instruments
.5	Specifications and standards
	<u>Control engineering. Automatic control systems</u>
	Cf. HD6331, Labor displacement
	T59.5, Automation
	TA165, Industrial instrumentation
	TS156.8, Process control
212	Periodicals. Societies. Collected works
.5	Dictionaries and encyclopedias
	General works
213	Treatises
.5	Popular works. Juvenile works
.7	Addresses, essays, lectures
.8	Problems, exercises, etc.

## Control systems

- 214 Servomechanisms
- 216 Feedback control systems
- 217 Adaptive control systems
- 218 Carrier control systems
- 219 Pneumatic control systems
- 223 Special, A-Z
  - .C6 Counters
  - .P4 Perceptrons
  - .P5 Photoelectronic devices
  - .R3 Radioactive measurements
  - .T4 Thermometers, etc.
  - .T5 Timers
  - .T7 Transducers
- 225 Applications (General)
  - For special applications, see field of a
  - o. g. T1225, Milling machines numeric
- Machine design and drawing
  - Including construction if contained in the
  - the design of special machines, see below
  - machine
  - Mechanical drawing, see T351-385
- 227 Drafting room practice
- 230 General works
- 233 General special
- 235 Graphic statics applied to machinery
- 240 Atlases and collections of designs and plans
- 241 Machine construction (General)
  - For special types of machinery and machine
  - esses, see under each machine or process
  - 1345, Machine shop practice; TK2331, Ele
  - TN345, Mining machinery; TS225-225.2, Fo
  - 239, Founding; TS1525, Textile machinery
- 243 Machine parts
- 245 Specifications and contracts for machinery
- 246 Packing. Gaskets. Sealing
  - Cf. T1529, Steam engine cylinder packing
- 247 Diaphragms
- .5 247.5 Bellows
- 248 Mechanical models
- 249 Erecting work. Foundations
- 250 Prime movers in general
- 253 Testing
- 254 Governors and governing
  - Cf. T1550-551, Steam engines
  - T1055, Machinery exclusive of prime m
- 255 Heat engines
  - Class here engines using heat as a source
  - For hot-air engines, see T1765
- 260 Heat in its applications, as a source of power
- Heat from the mechanical engineering sta
- 262 Heat pumps
  - Cf. TH7642, Heating and air conditioning
- 263 Heat exchangers (General)
  - For special applications, see under mach
  - e. g. T1778, Gas turbines; TP363, Hea
  - ing, evaporating, etc.
- 265 Theory of heat engines. Thermodynamics

- 266 turbines. Turbomachines (General)  
 Cf. TJ735-740, Steam turbines  
 TJ778, Gas turbines  
 TJ870-875, Hydraulic turbines  
 VM740, Marine turbines
- 267 Theory of turbines. Fluid, aero- and hydro-  
 turbomachinery
- .5 Special, A-Z
- .B5 Blades
  - .C3 Cascades
  - .C5 Compressors
  - .C6 Supersonic compressors
  - .D4 Diffusers
  - .D5 Disks
  - .I6 Impellers
  - .N5 Noise
  - .N6 Nozzles
- Supersonic nozzles, etc.

### STEAM ENGINEERING

- Steam
- Including heated fluids
  - Properties, etc.
  - Tables, calculations, etc.
  - Flow in pipes, orifices, etc.
  - Superheated steam. Superheaters, etc.
  - Cf. TJ693, Locomotives
  - General works on steam engineering
  - 275 Treatises, textbooks, etc.
  - 277 Pocketbooks, tables, etc.
  - 279 General special
  - o. g. High pressure steam
  - 280 Study and teaching
  - .5 Examinations, questions, etc.

### STEAM BOILERS

- 281 Periodicals, societies, etc.
- 283 History
- General works
- 284 Early works to 1850
- 285 1850-
- 286 Elementary textbooks
- 288 General special
- o. g. Boiler accessories
- 289 Handbooks, management and care of boilers
- Firemen's manuals, cataschisms, etc.
- Cf. VM749, Manuale for marine boiler attes
- 290 Construction (Boilermaking)
- 291 Materials of boilers, strength and testing
- 292 Settings
- 293 Supports
- 294 Manholes
- 295 Models
- 296 Catalogs (General)
- For special types, see TJ310-318
- 297 Testing. Heat transmission through boiler tu
- 298 Safety measures. Inspection
- 299 Steam boiler explosions
- Cf. TH6565, Kitchen boiler explosions
- 301 Reports of special boiler explosions

	Including reports of government examination of stationary engines
302	General works
	Special countries
	America
303.A1-2	General works
.A3-5	United States
.A6-W	By states, A-W
.Z6	By cities, A-Z
304	Other countries, A-Z
	Europe
305.A1-3	General works
.A4-Z	Special countries, A-Z
	Asia
306.A1-3	General works
.A4-Z	Special countries, A-Z
	Africa
307.A1-3	General works
.A4-Z	Special countries, A-Z
	Australia, Oceania, etc.
308.A1-3	General works
.A4-Z	Special states or islands, A-Z
	<u>Types of boilers</u>
310	Early types
	Including Cornish, Lancashire,
311	Multitubular
312	Vertical
	Locomotive boilers, <u>see</u> TJ642
314	Water tube boilers
315	Special types, A-Z
316	Combination and other forms, A-Z
318	Electrically heated steam boilers
	Kitchen boilers, <u>see</u> TH6563
	Marine boilers, <u>see</u> VM741-750
	<u>Boiler details and accessories</u>
320	<u>Furnaces</u>
322	Grates
324	Special types, A-Z
325	Gas burning installations
326	Oil burning installations
328	Air preheating
330	Chimneys
	Cf. TH4591, Construction
333	Draft
335	Forced draft. Mechanical dra
	Smoke prevention and consumer
340	Fuel economizers
345	Mechanical stokers (Automatic s
347	Grate shakers
350	Safety appliances
	Cf. TH6565, Hot water suppl
352	Safety valves
354	Special types, A-Z
356	Fusible plugs
357	Pressure regulators
358	Blowoffs

Steam boilers

Boiler details and accessories - Continued

Water gages

Gege or try cocks

Water glasses

Steam or pressure gages

Special types, A-Z

Feed apparatus

Water supply for boilers

Wells, etc.

Feedwater purification. Water softeners.

Feedwater heaters

Special types, A-Z

Feed pumps

Injectors

Boiler scale

Including its prevention and removal

Boiler compounds. Catalogs, circulars, etc.

Steam accumulators

STEAM POWERPLANTS. BOILER PLANTS

Plants for power, heating, etc.

Plants for power alone

General works

General special

Operation and management

Special plants. Description, plans, drawings

Coal and ash handling, see TJ1405-1410

Directories of manufacturers and dealers in  
supplies

Equipment and supplies

Including catalogs

Pipe and fittings

Including standardization

Cf. TH7478, Steam heating fittings

Catalogs

Profer TJ412

Pipe flangee

Including standardization

Expansion joints

Steam pipe covering

Steam valves

Catalogs

Reducing valves

Steam packing

Steam traps

Steam separator

Oil separators

Cf. TH7578.G7, Steam heating - Grease sep

STEAM ENGINES

History

Early works to 1850

1850-

Textbooks

Popular works. Juvenile works.

General special

Including curios

Handbooks, etc., for engine tenders



Catalogs (General)

For special types, see below

Standards. Specifications

Tests and efficiencies

Indicators

Models

Steam engines - Special types (Reciprocating)

For early types, see TJ461-465

Types. By inventor or maker, A-Z

e. g. .05 Corliss

Types. By use of steam

Simple

Single acting

Double acting

Special makes, A-Z

Compound

Special makes, A-Z

Triple expansion

Special makes, A-Z

Quadruple expansion

Other types, A-Z

e. g. Oscillating cylinder, etc.

Steam engines (Design and construction)

Balancing of engines

Details

Including description and parts

Foundations

Frame setting

Cylinder

Stuffing box. Packing

Steam jacket

Piston and piston rod. Piston rings

Crosshead and connecting rod

Crank and crankpin

Shaft and journals

Flywheel

Eccentric and eccentric-rod

Slide valve

Piston valve

Valve gears

Special types, A-Z

Governors

Special types, A-Z

Steam engine accessories

Condensers

Jet

Surface

Cooling towers

Wells

Exhausts

- History  
 Cf. TJ625, Special locomotive works  
 603 General works  
 Special countries  
 .2 United States  
 .3 Special railroad lines. By line, A-Z  
 e. g. .S6 Southern Pacific Railroad  
 .4 Other regions and countries, A-Z<sup>1</sup>  
 .5 Biography of locomotive engineers  
 Biography of inventors, manufacturers, etc.,  
 General works  
 Including dictionaries  
 604 Early to 1850  
 605 1850-  
 .5 Juvenile works  
 606 Manuals, pocketbooks, etc., for the locomotive  
 607 Handbooks, manuals, etc., for locomotive engine  
 608 General special  
 e. g. Boiler accessories  
 609 Special types  
 611 Simple  
 613 Compound  
 615 Other types. By use of steam  
 Electric locomotives, see TF975  
 619 Oil burning locomotives. Diesel engine locomotives  
 621 Gasoline locomotives  
 622 Gas turbine locomotives  
 623 Atomic locomotives  
 625 Special locomotive works and companies, A-Z  
 Reports, histories, etc., including catalog  
 descriptions of their locomotives  
 e. g. .B2 Baldwin Locomotive Works  
 630 Models and miniature engines  
 635 Design and construction  
 Repairs, see TJ675  
Details (Various motive powers)  
 640 Frames and running gear  
 642 Boilers  
 Including regulation and inspection  
 646 Fireboxes  
 647 Ashpans  
 648 Fuel for locomotives. Coal, oil, etc.  
 Cf. TJ690, Locomotive performance  
 649 Mechanical stokers  
 650 Draft appliances. Exhausts  
 653 Smoke prevention  
 656 Sparks and spark arresters

<sup>1</sup>

Each country may be assigned two cutters: .x, General works  
 special line, A-Z, e. g. TJ603.4.G7-72, Great Britain

- 659 Cylinders, pistons, etc.
- 662 Connecting rods, etc.
- 665 Valves and valve gears
- Other special
- 668 Headlights
- 669 Other, A-Z
  - .B4 Bearings
  - .B6 Boosters
  - .B7 Brakes
  - .C6 Compressors
  - .C7 Cranks and crankshafts
  - .S6 Speedometers
  - .S7 Storage batteries
- 671 Locomotive tenders
- 675 Locomotive maintenance and repair. Lubrication
- 680 Locomotive works and shops
- 683 Shop practice
- Supervision and inspection of locomotives
  - Cf. TJ642, Boiler inspection
  - Documents
    - 685.A1-5 United States
    - .A6A-Z Other countries, A-Z
    - .A7-Z General works
  - 690 Testing. Locomotive performance
    - Cf. TF550-606, Movement of trains
  - 693 Superheated steam for locomotives
  - 695 Locomotives for industrial purposes, logging
    - Cf. TN337, Electric mine locomotives

OTHER STEAM ENGINES

- Marine engines, see VM731-779
- 700 Traction engines, etc.
- 705 Steam wagons, trucks, etc.
  - Cf. TL200, Steam automobiles
- Road rollers, see TE223-227
- 710 Portable engines
- 712 Farm engines
- 717 Reciprocating engines of unusual form
- 720 Steam engines of other forms not reciprocating
- 725 Eolipiles
- 727 Aerosteam engines
- 729 Rotary engines
- 731 Cycloidal engines
- Steam turbines
  - Cf. VM740, Marine turbines
- 735 General works
- 737 General special
- 740 Special types, A-Z

MISCELLANEOUS MOTORS AND ENGINES

Internal combustion engines; air, gas, and oil engines;  
solar engines, animal motors, etc.

- 751 Periodicals, societies, etc.
- 752 Dictionaries and encyclopedias
- 753 History
- 755 General works

759	General special
	e. g. Regulators, indicators, thermodyne
765	Hot-air engines. Caloric engines
766	Compressed air engines
768	Gas powerplants
	<u>Gas engines</u>
770	General works
773	Explosion or ignition devices
	Including ignition devices for internal motors in general
774	Other details. Cylinder, piston, etc.
775	Regulation devices
776	Special types
	Including catalogs
777	Special applications, A-Z
	.F3 Farm engines
778	Gas turbines
	Cf. VM740, Marine turbines
779	Free piston engines
780	Engines for utilization of furnace and waste
	<u>Oil and gasoline engines</u>
	Cf. TJ621, Gasoline locomotives
	TL210, Automobile motors
	TL701-704.7, Airplane motors
	VM770-771, Marine engines
785	General works
787	Carburetion, ignition, etc. Spark plugs.
	Cf. TL213, Automobiles
789	General special
	Lubrication, cooling, etc. Prefer TL1
	TL702.L8 for automobile or airplane
790	Special types
	Including catalogs
	<u>Diesel engines</u>
	Cf. TK1075, Diesel engine electric plant
	TL704.2, Diesel engines for aircraft
	VM770, Marine diesel engines
795.A1A-Z	Periodicals, societies, etc.
.A2-Z	General works
.5	Special types, makes, etc. (not A-Z)
797	Fuel systems. Fuel injection systems. Co
	Cf. TP343, Diesel fuels
798	Lubrication
799	General special
	Cooling, governors, exhaust systems, e
800	Alcohol motors
805	Engines or motors using other combustible li
810	Solar engines. Utilization of energy in sun
	Cf. TH6561.7, Solar water heating
	TH7413, Solar heating of buildings
	TK2960, Solar batteries
	Windmills. Air turbines
823	History
824	Early works to 1800
825	1800-
827	Trade catalogs
830	Animal motors. Treadmills

- 950 General works
- Airbrakes, see TF420
- 955 Air pumps
- 960 Blowers and fans. Exhausters
- Cf. TH7683, Ventilation fixtures
- 963 Piston blowers. Blast engines
- 966 Rotary blowers
- 969 Centrifugal blowers
- Compressed air
- 981 Periodicals, societies, etc.
- 985 General works
- 990 Air compressors
- 992 Catalogs and trade publications
- 1000 Distribution and transmission
- 1005 Pneumatic tools
- 1007 Catalogs
- 1009 Sandblast
- Cf. TP864, Glasswork
- 1015 Pneumatic tubes and carriers
- 1025 Flow of gases in pipes. Air meters
- 1030 Air jets

#### MACHINERY EXCLUSIVE OF PRIME MOVERS

Including millwork, i. o., the shafting, gearing and other driving machinery of mills and factories

For mills of specific places, see TS21-126

Cf. TS191-191.6, Installation and maintenance of factory machinery

- 1040 General works
- Power and power transmission
- 1045 General works
- 1049 General special
- 1051 Power transmission machinery
- Including catalogs
- 1053 Measurement of power. Dynamometers
- 1054 Speed and revolution indicators
- 1055 Regulation and control of power. Governors
- Steam engine governors, see TJ550-551
- 1057 Shafting
- 1059 Universal joints
- 1060 Brakes
- Cf. TF415-430, Railroad brakes
- TF949.B7, Electric railway brakes
- TJ669.B7, Locomotive brakes
- TJ880, Hydraulic brakes
- TJ1377, Elevator brakes
- TK4081, Electric brakees
- TL269, Automobile brakes
- TL683.B7, Airplane brakes
- Bearings
- 1061 General and metallic bearings
- 1063 Journal bearings
- 1065 Pillow blocks, hangers, brackets
- 1067 Pivot bearings
- 1069 Collar bearings
- 1071 Antifriction devices. Ball and roller

Nonmetallic bearings

Including special types of bearings

Special materials, A-Z

.P6 Plastic

.R8 Rubber

.W6 Wood

5

Hydrodynamic and hydrostatic lubrication. Gas bearings

Clutches. Friction clutches

For automobile clutches, see TL261

Tribology. Lubrication and friction

A2A-Z

Periodicals, societies, etc.

A3-Z

General works

Lubricants

Cf. TJ789, Lubrication of motors and engines

TP670-699, Oils, fats, etc.

Oil feeders, etc.

Oil strainers, etc.

Friction wheels

Belt gearing. Belt transmission

Pulleys

Belting

Belt shifters, etc.

Rope transmission

Chain gearing

Link belting

Toothed gearing, see TJ184-202

## MACHINE SHOPS AND MACHINE SHOP PRACTICE

Cf. TS200-788, Metal manufactures.

Metal forming

General works

Film catalogs

Building and arrangement of machine shops

Plans of buildings and shops

Management of machine shops

Drafting-room practice, see TJ227

Accounting and bookkeeping, see HF5686.M2

Production standards. Time and motion study

Cost of production

Estimating

Including estimates

Storerooms, stockrooms, supplies

Machine shop practice

Machinists' manuals. Shop kinks, shop mathematics, repairing, etc.

Gages and gaging systems

General special

e. g. Errors in workmanship, accuracy of fit

Directories of dealers in machinery and supplies

Special companies (History, etc.), see TJ130

Catalogs of machinery (General)

Safety appliances (General)

Safety appliances for special types of machine  
classified with the machinery, e. g. TS850, Wood  
machinery

Machine and handtools

Design, manufacture, and use

A1A-Z  
A2-Z

Cf. TS215, Use of metal working machinery (General)  
Periodicals, societies, etc.

General works

Machine tools and machining

Cutting tools

Drill bits, milling cutters, reamers, broaches,  
treated collectively; individually, classified by  
special numbers, e. g. TJI263, Drills,  
Reamers

Jigs and fixtures

Machine tool drives

Numerical control of machine tools

Numerical control of special types of machine tools  
classified with the machinery, e. g. TJI223, Machine  
machines

Catalogs

Special types of machining

e. g. Electric spark, ultrasonic, etc.

Materials used in machine and hand tools

General works

Special materials

Diamonds and other precious stones

Other (not A-Z)

e. g. Plastics

Handtools

Catalogs

Special handtools, A-Z

.A9 Axes

Files, see TJI285

.H3 Hammers

.P55 Planes

Saws, see TJI233-1235

Shears, see TJI240

.V5 Vises

.W8 Wrenches

Special tools

Planing machines

Planers

Shapers. Routing tools

Slotting and grooving machines

Turning machines. Screw machines

Cf. TT207, Metal turning

Lathes

Chucks

Boring attachments

Screw-cutting machines

Milling machines

Gear cutting machinery, see TJI187

Cutting and sawing machinery

Cf. TK4660.5, Electric cutting machinery

Saws

Refer TS850-851 for sawmill machinery

Saw filing

Cf. TJI285, Files and filing

Shears

Machine and hand tools

Special tools - Continued

Perforating machinery

Punching machinery

Cf. TS253, Punch and die work; press

Multiple punches

Drilling machinery

Drills

Including making and tempering

Catalogs

Reamers

Abrading machinery. Grinding, lapping, etc.

Files and filing

Cf. TJ1235, Saw filing

Catalogs

Emery wheels

Grindstones

Abrasives and polishes

Carborundum

Bending machines

Including straightening and shaping

Hammers. Steam hammers. Power hammers, etc.

Riveting machines

Measuring tools, rules, calipers, etc.

Bench work and fitting

Assembling machines

Fastenings

Cf. TA492, Special forms in metal

Rivets

Bolts and nuts

Bolt cutters

Taps and dies

Screws and screw threads

Standards

Screw-cutting machines, see TJ1222

Crushing and milling machinery

Cf. TE239, Stonecrushers for road material

TJ1225, Milling machines

TJ1280-1298, Abrading machinery

TN500-510, Ore-dressing, etc.

TP937.5, Paint machinery

TS2120-2159, Flour mills, etc.

HOISTING AND CONVEYING MACHINERY

Cf. TS180.3, Materials handling  
machinery

50.A1A-Z Periodicals, societies, etc.

.A2-Z General works

53 Catalogs

55 Excavators

Cf. TA735-737, Excavating machinery (Operati

Hoisting machinery

Blocks and falls

Chain blocks

Shear legs, etc.

Winches

Cranes and derricks

Travelling cranes

Lifting magnets



1367	<u>Hoisting machinery - Continued</u> Details of construction o. g. Girders and beams <u>Elevators</u>
1370	General works
1372	Specifications
1374	Electric elevators
1375	Hydraulic elevators
1376	Escalators
1377	Brakes and safety devices
1380	Elevator service in buildings
1382	Dumbwaiters
1383	Hoists For ashes, etc.
	<u>Conveying machinery</u>
1385	Cableways. Telferage. Wire rop
1387	Electric telfer systems
1390	Conveyors, belts, etc., for assem Endless carriers
1395	Catalogs
1398	Conveyors, chutes, etc., for lett
1405	Coal-handling machinery Cf. TF294, Locomotive coaling TH4471, Coal-handling pla TN815, Mining
1410	Ash-handling machinery
1415	Grain-handling machinery Cf. TH4461, Grain elevators
1417	Special systems, companies, etc
1418	Dumping devices

#### LIFTING AND PRESSING MACHINERY

1425	General works
1430	Lifting jacks
1433	Screwjack
1435	Hydraulic jack
1450	Presses
1452	Catalogs
1455	Screw press
1460	Hydraulic press
1470	Filter presses
1475	Catalogs

#### AGRICULTURAL MACHINERY. FARM MACHINERY

	Cf. S671-760, Utilization of agricultural machines S675.5-760, Maintenance and repair S677-725, Catalogs
1480.A1A-Z .A2-Z	Periodicals, societies, etc. General works
1482	Soil working machines: Plows, harrows
1483	Seeders, planters, etc.
1484	Machines for caring for plants
1485	Harvesters, reapers, etc.

1486 .5  
1487  
1495  
1496

Processing machines, combines  
Lumbering machinery  
Other  
Farm gas engines, see TJ777.F3  
Farm steam engines, see TJ712  
Gasoline tractors, see TL233  
Pumps and pumping engines, see TJ900-925  
Trucks, see TL230  
By country, A-Z  
By company, A-Z

### SEWING MACHINES

Cf. TT713, Sewing machine work

1501  
1503  
1505  
1507  
1510  
1512  
1513  
1515  
1519

Periodicals, societies, etc.  
Exhibitions  
Subarranged like TA6  
Directories  
History  
General works  
Patents  
General special  
Manuals of instruction for users  
Trade catalogs

### OTHER SPECIAL MACHINERY

1530  
1540  
1545  
1550  
1555  
1560  
1570

Coffering machines  
Screening machinery  
Packaging machinery  
Wrapping machines  
Sorting devices  
Coin operated machines  
Vending machines  
Amusement machines

- Production of electric energy, see TK1841  
Dynamo-electric machinery and auxiliaries, see TK2891  
Distribution or transmission of electric power, see TK3511  
For works combining mechanical and electrical engineering, see TJ163  
For special applications of electrical engineering, see TK4001-4101, General applications; TK4125-4399, Electric lighting; TK5101-6720, Telecommunication, and TK7018-7725, Installation of household appliances. For other special applications, see the field, e. g. TF855-1126, Electric railways; TP250-261, Industrial electrochemistry; VM471-480.5, Electricity on ships
- Periodicals and societies, by language of publication  
1. A1A-Z International or polyglot  
. A3-Z English  
2 French  
3 German  
4 Other languages (not A-Z)  
5 Congresses  
6 Exhibitions. Museums  
    Subarranged like TA6  
    Telegraphic exhibitions, see TK5107.5  
7 Collected works (nonserial)  
9 Dictionaries and encyclopedias  
    Cf. QC505, Electrical dictionaries  
11 Electrotechnical readers  
12 Directories of electrical industries  
    Central station directories, see TK1194  
13 Yearbooks  
History  
15 General works  
16 Early to 1830  
17 Nineteenth century, 1830-1880  
18 1880-  
26 Country divisions. Table I<sup>1</sup>  
    Including general reports of government bureaus  
Biography  
39 Collective  
40 Individual, A-Z  
General works  
    Early works  
43 Before 1830  
44 1830-1870  
45 1870-  
46 Elementary textbooks  
47 Laboratory manuals, outlines, syllabi, etc.  
    Testing, see TK401  
    Standardizing, see TK275-277  
48 Juvenile works. Popular works  
    Amateur's handbooks, see TK9900-9971

- 151 Rocket motors, tables, etc.  
 152 Safety measures (General)  
 153 General special  
     e. g. Electromechanical transducers  
 155 Addresses, essays, lectures  
 159 Electrical engineering as a profession  
     Electrical engineering (Biography), see  
Study and teaching  
 165 General works  
 168 Problems, exercises, etc.  
 169 Examinations, questions, etc.  
 171 America  
     United States  
         General works  
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         Cities, A-Z  
     Canada  
         Special provinces, A-Z  
         Special cities, A-Z  
     Latin America  
         Mexico  
         Central America  
             Special countries, A-Z  
     West Indies  
         Special islands, A-Z  
     South America  
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         Special countries, A-Z  
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         Special countries, A-Z  
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     Australia  
         Special states, A-Z  
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     United States. By school, A-Z  
     Correspondence schools, A-Z  
     Other countries. By school, A-Z  
 Law and legislation relating to applications  
     electricity  
 215 General works  
     Special countries  
         America  
             United States  
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                 Cities, A-Z  
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                 Special provinces, A-Z  
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                     Special countries, A-Z  
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                 Special islands, A-Z  
             South America  
                 Special countries, A-Z

Special countries - Continued

Europe

Special countries, A-Z

e. g. .G5-9 Great Britain

.G5 Serials. Collections

.G6 Hearings. Reports

.G7 Laws. Codes

.G9 Unofficial publications

Asia

Special countries, A-Z

Africa

Special countries, A-Z

Australia and New Zealand

Special colonies, A-Z

Pacific islands

Special islands, A-Z

Patents

Electrical engineering - Insurance requirements

Gf. TK3275, Wiring

Electric standards and measurements

For standards of special machinery or material,  
see the special subject, e. g. Dynamoelectric  
machinery, TK2311; Wire and cable, TK3307

For testing of electric machinery, see TK401

Gf. TK425, Specifications and contracts

General works

General special

Electric meters

General treatises

General catalogs

Manufacturers' catalogs

Supply companies' catalogs

Meters for special measurements

Resistance meters and measurements

e. g. Galvanometers, ohmmeters, resistance boxes  
Wheatstone's bridge, shunts

Potential and voltage meters and measurements

e. g. Voltmeters, voltage detectors

Voltohmmeters

For combined works on voltohmmeters and vacuum  
voltmeters, see TK7879.2

Intensity and current meters and measurements

a. g. Ammeters, coulometers, ampere-hour meters  
voltameters

Quantity meters and measurements

a. g. Wattmeters

Energy and power meters and measurements

e. g. Watt-hour meters, power factor meters

Other meters and measurements

e. g. Frequency meters and measurements, oscillograms  
phase meters, synchronizers

Recording meters (General)

For special types, see TK331-381

Prapayment meters

Talemeter systems

- Testing of electric machinery and appliances (General)
  - Cf. TK147, Laboratory manuals
  - TK275-277, Electric measurements
- For the testing of special machinery or appliances
  - see the special subject, e. g. TK2316, Machinery testing
- Electrical engineering and testing laboratories
  - Special laboratories, A-Z
- Specifications and contracts (General)
  - For specifications for special machinery, etc., see the special subject, o. g. Dynamoelectric machinery, TK2321
- Drawings
- Estimates
- Management and superintendence of electrical enterprises
  - See also the special subject, e. g. Central station management, TK1811
- Business getting. Soliciting
- Interconnection of power systems
- Automation
- General electrical manufacturing and engineering companies
  - For economic aspects, see HD9685-9697
- Electric apparatus and materials
  - General works
  - Materials (General)
  - Electric circuits
    - Cf. TK3226, Electric-power circuits
  - Electric networks
    - Cf. TK3226, Electric-power networks
  - Special, A-Z
    - Insulation and insulating materials, see TK3401-3441
    - .M3 Magnetic materials
    - . Meters, see TK301-396
    - .P5 Phosphors
    - .T3 Talc
- Catalogs of electric machinery and supplies (General)
- Theory (General), see TK143-145
  - Theory of dynamoelectric machinery, see TK2211
  - Theory of direct-current machinery, see TK2615
  - Theory of alternating-current machinery, see TK2711
  - Theory of the line, see TK3226
- Special
  - Current and voltage waveforms
  - Resonance in electrical engineering

# PRODUCTION OF ELECTRIC ENERGY OR POWER

- Powerplants, see TK1191-1841
- Dynamoelectric machinery (General), see TK2000
- Distribution of electric power, see TK3001-3511
- General works
- General special
  - e. g. Rural plants, metropolitan plants

Production from heat  
 Production from steam (Coal)  
 Production from gas  
 Production from other fuels  
 Diesel engine electric plants  
 Production from atomic power  
 Production from waterpower. Hydroelectric power  
 Special countries and plants, see TK1421-1  
 Production from windpower, see TK1541  
 Direct production from chemical action, see TK  
 Production classified by character of the electric  
 For distribution of electric energy (classified  
 character of the electric current), see  
 General works, see TK1001  
 Direct-current engineering  
 Cf. TK2611-2699, Direct-current dynamoelectric  
 Edison three-wire system  
Alternating-current engineering  
 Cf. TK2711-2799, Alternating-current machinery  
 Single-phase currents  
 Two-phase currents  
 Polyphase currents  
 Cf. TK2745, Polyphase-current machinery  
 Three-phase currents  
 Multiphase currents  
Powerplants, Central stations  
 Including light and powerplants  
 Cf. TK4581, Construction of powerplants  
 Production of electric energy, see TK1001-  
 Dynamoelectric machinery and auxiliaries,  
 Electric lighting stations, see TK4201-42  
 Telegraph (Power production), see TK5371  
 Telephone (Power production), see TK6271  
 Central station wiring, see TK3281  
 General works  
 Special countries, A-Z  
 Directories  
 Cf. TK12, Directories of electrical industry  
Special  
 Powerplants utilizing heat energy. Table  
 Cf. TK1041-1078, Production of electric energy  
 from heat  
 Powerplants utilizing heat energy. By industry  
 companies, A-Z  
 Powerplants utilizing atomic power  
 Divided like TK171-205  
 Cf. TK1078, Production of electric energy  
 atomic power  
 Powerplants utilizing atomic power. By country  
 place, A-Z  
 Powerplants utilizing waterpower. Table 1  
 Cf. TK1081, Production of electric energy  
 waterpower  
 Tennessee Valley Authority in TK1425.M  
 Powerplants utilizing other power, air, etc.

Special - Continued

Powerplants utilizing both heat and water

see TK1221-1331

Substations

Central station management

Machine operators' manuals, see TK218

Electric lighting (Central station management)  
TK4238

Central station testing

Cf. TK2316, Testing of dynamoelectric

Electric power rates

Cf. HD9685, Economic aspects

Refer TK21-126 for special places

DYNAMOELECTRIC MACHINERY AND AUXILIARIES

Including motive power, machinery and auxiliaries

Production of electric energy, see TK1001

Powerplants, see TK1191-1841

Auxiliaries (General), see TK2811-2891

General works

Special motive power and driving apparatus for  
dynamoelectric machinery

Dynamoelectric machinery

Including both direct and alternating-current  
generators, motors, etc.

General works

Treatises

Elementary textbooks

Operators' manuals

Amateurs' handbooks of generator and motor  
construction, see TK9911

General special

Theory

Theory of direct-current machinery, see

Theory of alternating-current machinery

Eddy currents in electrical engineering

Commutation and brush resistance

Cf. TK2481, Commutation

Standards

Testing

Central station testing, see TK1831

Generators and motors, see TK2433

Direct-current machinery, see TK2623

Alternating-current machinery, see TK27

Contracts and specifications

Machine drawing for electrical engineers

Design and construction

Generators and motors, see TK2435

Direct-current machinery, see TK2625

Alternating-current machinery, see TK27



- 2341 Types of dynamoelectric machinery  
 Generators, see TK2441  
 Motors, see TK2537  
 Direct-current machinery, see TK2631  
 Alternating-current machinery, see TK2631
- 2391 General special  
 o. g. Automata, coils, etc.  
Generators (General) (D. C. and A. C.).  
 Including works treating of both general and special  
 Direct-current generators, see TK2661  
 Alternating-current generators, see TK2661  
 Machinery for electric lighting, see TK2661  
 Amateurs' handbooks of generator construction, see TK9911
- 2411 General works
- 2433 Testing of generators and motors
- 2435 Design and construction of generators and motors  
 Design of direct-current generators  
 Design of alternating-current generators  
 Design of details, see TK2451-2491
- 2441 Types of generators  
 Direct-current generators, see TK2661  
 Alternating-current generators, see TK2661
- Details
- 2451 General works  
 Special  
 Mechanical details  
 General works  
 Special, A-Z  
 e. g. Bearings, bedplates, footings, etc.  
 Magnetic details  
 General works  
 Special  
 Field yoke  
 Field poles  
 Field shoes  
 Electrical details  
 General works  
 Special  
 Winding  
 General works  
 Field winding and spools  
 Armature winding and armature  
 Commutators and collectors  
 Commutation, see TK2281  
 Brush holders and brushes  
 Shunts. Leads  
 Terminals  
 General special
- Motors (General) (D. C. and A. C.).  
 For works treating of generators and motors together, see TK2411-2491  
 Use of electric motors, see TK4055-4060  
 Direct-current motors, see TK2681  
 Alternating-current motors, see TK2781
- General works
- 2511 Treatises
- 2514 Elementary textbooks  
 Amateurs' handbooks, see TK9911
- (2535) Design and construction, see TK2435

## Types

Railway motors, see TF935

## Details

Details in common with generators, see  
TK2451-2491

## Transforming machinery (D. C. and A. C.)

Direct-current transforming machinery, see  
TK2691-2697Alternating-current transforming machinery  
TK2791-2798Amateurs' handbooks of transformer construction  
see TK9915Direct-current machineryDirect-current engineering, see TK1111

## General works

Treatises

Textbooks

Theory

o. g. Short-circuited currents in armatures

Testing of D. C. machinery

Design and construction

## Types

Details, see TK2451-2491

General special

Special direct-current machinery

Direct-current generators

General works

Design, see TK2625

Types

e. g. Constant-potential generators  
generators, constant-current generators  
commutation pole generatorsDetails, see TK2451-2491

Direct-current motors

Direct-current transforming machinery

General works

Special

Dynamotors

Motor generators

Boosters

Other direct-current machinery

Alternating-current machinery

Cf. TK1141-1168, Alternating-current engineering

## General works

Treatises

Textbooks

Technique of alternating-current machinery

e. g. "Hunting" fields, parallel driving

Testing of alternating-current machinery

Design and construction

Types of alternating-current machinery

o. g. Synchronous, polyphase, etc.

Details, see TK2451-2491

General special

Special classes of alternating-current machinery

Polyphase-current machinery

Polyphase currents, see TK1161

Special alternating-current machinery

Alternating-current generators

- 761 General works  
765 Types  
781 Alternating-current motors  
General works  
Types  
785 Induction, asynchronous and polyphase  
Squirrel-cage motors  
Starting compensators, see TK2851  
787 Synchronous motors  
789 Repulsion motors. Repulsion induction  
motors. Commutator motors. Series  
wound motors  
Alternating-current transforming machinery  
A. C. to A. C. transforming machinery  
791 General works  
792 A. C. transformers. Autotransformers  
compensators. "Current" transformers  
794 Types  
A. C. to D. C. transforming machinery  
795 General works  
796 Converters. Rotaries  
797 Motor-generator sets (A. C. synchronous  
induction motors)  
Including cascade converters (induction  
motor-dynamo; second of motor and armature of generator  
cascade)  
798 Other A. C. to D. C. transformers.  
Aluminum coils  
Cf. TK787L.7-84, Electron tubes  
TK787L.85-99, Semiconductor  
799 Other alternating-current machinery  
e. g. Frequency converters

805 Condensers

811 Apparatus auxiliary to dynamoelectric machinery

- General works  
Switchboards and accessories  
Telephone switchboards, see TK6271; TK6  
821 General works  
Including switchboard meters, switchboards  
rheostats, etc.  
822 Direct current  
825 Alternating current  
826 Low tension A. C.  
828 High tension A. C.  
831 Switches  
841 Circuit breakers and fuses  
842 Circuit breakers  
846 Fuses and "Cutouts"  
Fuses (General), see TK3511  
851 Rheostats. Regulators. Controllers. Starters  
Controllers or starters for electric cars  
861 Relays  
891 Accumulators in central stations

General works  
Production of electricity directly from chemical action  
General works  
Special apparatus  
    Amateurs' manuals, see TK9917  
    Primary cells  
    Fuel cells  
    Storage batteries  
        Accumulators in central stations, see TK289  
Thermoelectricity (Applied)  
    General works  
    Special apparatus  
        Thermionic converters  
        Solar batteries  
            Cf. Tl180, Solar engines  
            Tl1100-1102, Electric equipment on spacecraft vehicles  
Magnetohydrodynamic generators  
    Cf. Tl783.6, Plasma rockets  
    Tl1102.G4, Generators

## DISTRIBUTION OR TRANSMISSION OF ELECTRIC POWER

Including the electric-power circuit  
Cf. TK1001, Production of electric energy

General works  
Testing of distribution systems  
    The line and component parts, see TK3207  
General special  
Systems

    Overhead and underground systems, see TK3221-3261  
    Electric lighting (Systems), see TK4303-4399  
General works. Tapping of line for various uses  
Transformation of electricity (General)  
    Transforming machinery, see TK2551  
Direct-current systems  
    Cf. TK1111-1121, Direct-current engineering  
Alternating-current systems  
    Cf. TK1141-1168, Alternating-current engineering  
General works  
    Low tension A. C. systems (to 500 volts)  
    Medium tension A. C. systems (500-10,000 volts)  
    High tension A. C. systems (above 10,000 volts)  
    Single-phase current systems  
    Two-phase current systems  
    Polyphase current systems  
        General works  
        Three-phase current systems  
        Multiphase current systems  
Polycyclic systems  
    Combinations of single and two-phase currents  
        transmitted over single line and used as single  
        and two-phase current at point of application  
Composite systems (A. C. and D. C.)

Distribution or transmission of electric powerWiring

- Central station, line and user's plant
- For special wiring, see the subject, e. g.
- Electric lighting, see TK4255; Telegraph
- TK5441; Telephone, see TK6341
- The line (General), see TK3221-3261
- General works
- Pocketbooks, tables, diagrams, etc.
- Tables of properties and dimensions of wires
- see TK3305
- Testing of line and component parts
- Distribution systems - Testing, see TK3307
- Wire, see TK3307

## General special

## The line

- General works
- Technique of the line. Electric-power circuits and networks
- e. g. Induction capacity, etc., of power lines and heat losses of overhead lines and underground lines
- Cf. TK454, Electric circuits (Apparatus)
- TK454.2, Electric networks (Apparatus)

## Grounding

Aerial or overhead lines and component parts

- Telegraph (Overhead lines), see TK545
- Telephone (Overhead lines), see TK635

## Catalogs

## Details

- Poles, crossarms and towers
- Pole supports
- Line insulators. Testing of insulators
- Cf. TK3431, Testing of insulating materials
- Lightning arresters (General)

Underground lines and component parts

- Telegraph (Underground lines), see TK545
- Telephone (Underground lines), see TK635

## General works

## General special

- e. g. Electrolysis due to underground currents
- Cf. TF912, Stray currents from electric systems
- Contracts and specifications
- Details

e. g. Conduits, manholes

Cables, see TK3351Interior or indoor wiring

## General works

- Insurance underwriters' requirements
- Contracts and specifications
- Central station wiring
- Factory wiring
- House wiring

Conductors. Wires. Cables

- Telegraph wire and cable, see TK5481
- Telephone wire and cable, see TK6381

- 3311 Conductors, A-Z  
     a. g. Gases
- 3321 Bare wires
- 3331 Insulated wires
- 3335 Testing  
     Cf. TK3431, Insulating material
- 3351 Cables  
     Submarine cables, see TK5661-5681
- Insulation and insulating material
- 3401 General works  
     Insulating material
- 3421 General works
- 3431 Testing  
     Insulators, see TK3246  
     Insulated wires and cables, see T
- 3441 Special insulating materials, A-Z  
     .P25 Paper  
     .P55 Plastics  
     .S8 Sulphur hexafluoride
- Other details
- 3511 Fuses (General)  
     Fusees for switchboards, see TK2846

APPLICATIONS OF ELECTRIC POWER

- 4001 General works  
     Electric railways, see TF855-1126
- 4015 General special  
     Special applications
- 4018 Agriculture and the farm  
     Cf. HD9688, Rural electrification
- 4025 School building equipment
- 4035 Other special, A-Z  
     .B83 Building materials industry  
     .F3 Factories (General)  
     .F6 Flour mills  
     .H6 Hoisting machinery  
     .M6 Motion-picture theaters  
     .O7 Ore-dressing plants  
     .P3 Paper industry  
     .P35 Petroleum engineering  
     .S7 Steelworks  
     .S9 Sugar factories  
     .T4 Textile factories
- 4050 Mechanical applications of electric power  
     Use of electric motors
- 4055 General works
- 4057 General special  
     a. g. Motor repeirers' manuals  
     Cf. TK3205, Wiring manuells, etc.
- 4058 Special uses of electric motors. Elect  
     For printing press, machine tools,
- 4081 Electric brakes  
     Electric calculating machines  
     Cf. HF5679, Machine methods in accour  
     QA75, Calculating machines (Methe  
     TK7885-7895, Electronic calculati
- 4090 General worke

Electric calculating machines - Continued

Special machines

Accounting machines

Special. By make, A-Z

e. g. .15 International Business  
Corporation

ELECTRIC LIGHTING

Cf. TH7700-7975, Domestic illumination

Periodicals, societies, etc.

History

Special countries

Including annual reports of electric lighting

Cf. HD4486-4495, Municipal industries

TK4220-4234, Special plants

America

United States

States, A-W

Cities, A-Z

Canada

Special provinces, A-Z

Mexico

Central America

Special countries, A-Z

West Indies

Special islands, A-Z

South America

Special countries, A-Z

Europe

Special countries, A-Z

Asia

Special countries, A-Z

Africa

Special countries, A-Z

Australia

Special states, A-Z

New Zealand

Pacific islands

Special islands, A-Z

General works

Early to 1870

1870-

Elementary textbooks

Electricians' manuals

Pocketbooks, tables, etc.

Wiring for electric lighting, see TK4255

Amateurs' handbooks, see TK9921

General special

Technique. Theory of electric lighting

e. g. Candlepower, light distribution

Specifications and contracts

Incandescent lighting, see TK4348

Management of electric lighting enterprises

Management of electric lighting plants, see T

- 88 Special aspects of electric lighting
  - e. g. City or metropolitan lighting, rural
  - indirect lighting, lighting of roads
- Catalogs of lighting machinery and supplies
- Cf. TK455, Electric machinery and supplies
- 95 General works
- 98 Fixtures
  - Gas and electric fixtures combined, see
  - TH7960-7970
- Central stations for lighting
  - 01 General works
  - 18 General special
  - Special lighting plants
    - 19 General works
    - Special lighting plants utilizing heat energy
      - 20 United States
      - 21 British America
      - 23 Other American countries, A-Z
      - 24 Other (Asia, Africa, Australia, and Oceania)
    - 29 Special lighting plants utilizing waterpower
      - Subdivided like TK4220-4224
    - 34 Special lighting plants utilizing both heat and
      - waterpower
      - Subdivided like TK4220-4224
  - 37 Substations
  - 38 Management of electric lighting plants
    - Cf. TK4186, Electric lighting enterprises
  - Machinery for electric lighting
    - Electric generators, see TK2411-2491
    - Operators' manuals, see TK2184
  - 251 Distribution in electric lighting
  - 255 Wiring for electric lighting. Installation
    - Insurance underwriters' requirements, see
    - Pocketbooks and tables for electric lighting, see
    - TK4166
- Systems of electric lighting
  - General and miscellaneous, see TK4160-4169
  - 03 Direct-current systems
  - 04 Alternating-current systems
  - 08 Composite systems (D. C. and A. C.)
  - 310 Electric lamps (General)
  - Arc lighting
    - 311 General works
    - 319 General special
    - Arc lamps and systems
      - 321 General works
      - 322 Types. Open and enclosed arcs
        - Prefer TK4329
      - 329 Special lamps and systems. By name, see
      - 331 Details
      - 335 Carbons
        - Manufacture of carbons, see TK77
  - Inoandoscont lighting
    - 341 General works. Handbooks. Pocketbooks
    - 348 Specifications and contracts
    - 349 General special
      - e. g. Safety measures



Incandescent lighting - Continued

Incandescent lamps and special systems

- 4351 General works
- 4352 Types. Carbon and metal filament l.
- 4359 Special lamps and systems. By name
- 4361 Details. Wall plugs, sockets, etc.
- 4365 Filaments
- 4367 Tests of efficiency of incandescent

Other lamps and systems

- 4371 Hertz lamps and systems
- 4381 Vapor lamps and systems
  - e. g. Mercury vapor lamps
- 4383 Neon lamps and tubes
- 4386 Fluorescent lamps and systems
- 4391 Miscellaneous lamps and systems
- 4395 Private electric-light plants for country
- 4399 Special uses of electric lighting, A-7.

Dwellings, see TK4255

.E5 Emergency lighting

.F2 Factories. Workshops

.H7 Hotels

.I7 Iron and steel works

.K5 Mills

.P6 Powerplants

.S4 Searchlights

Ships, see VM493

.S5 Show windows

.S6 Signs

Cf. TK4383, Neon lamps and tubes

.S8 Stores

Streets, see TK4188

.T6 Theaters

Cf. PN2091.E4, Electric devices

Infrared technology. Infrared apparatus and

Cf. TK4635, Infrared heating

TP363, Heating, drying, cooling, etc.

TK755, Photography

4500.A1A-Z Periodicals, societies, etc.

.A2-Z General works

4601 Electric heating

Rheostats and controllers, see TK2851

4635 Infrared heating

Special applications of electric heating

Electric space heating, see TH7409-7410

(4652) Electric cooking, see TX657.S5; TX827

Thawing of water pipes, see TH6685

4660 Electric welding

.5 Electric cutting

4661 Electric furnaces

Cf. QD157; QD277, Chemistry

TN687, Electric metallurgy

TP841, Ceramic industries

(4695) Electric ignition

Electric gaslighting, see TH6885

Ignition devices for automobiles, see

Class here general works only. For works on systems, see the special subject, e. g. TK6 Radio

Cf. QA268, Coding theory

- 5101.A1A-Z Periodicals, societies, congresses, etc.
- .A3-Z General works
- 5102 Dictionaries and encyclopedias
- .5 General special
- 5103 Apparatus and supplies
- .5 Information display systems
- .6 Laser communication systems
- Cf. TK7871.3, Lasers
- 5104 Artificial satellites in telecommunication
- Cf. HE9719-9721, Economics
- .2 Special systems and projects, A-Z
- .R4 Relay
- .T4 Telstar

### TELEGRAPH

Including works on the telegraph and tele

Military telegraph, see UG600-610  
Submarine telegraph, see TK5605-5681  
Radiotelegraph, see TK5700-5865  
Economics: Conventions, administrative financial reports, etc., see HE7601  
Construction for amateurs, see TK9941

- 5107 Periodicals, societies, etc.
- .5 Exhibitions
- Subarranged like TA6
- 5108 Collected works (nonserial)
- 5110 Dictionaries and encyclopedias
- History
- 5115 General works
- Claims of inventors
- 5117 General works
- 5118 Special
- e. g. .B2 Claims of Bain
- .C7 Claims of Cooke
- .H5 Claims of Henry
- .M7 Claims of Morse

- 5121-5226 Country divisions. Table I<sup>1</sup>
- Technical reports of telegraph comp
- Biography
- 5241 Collective
- 5243 Individual, A-Z
- 5250 Study and teaching
- Special schools
- 5255 United States
- 5257 Other countries, A-Z

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For Table I, see pp. 263-265. Add country number

General works

Comprehensive treatises

Elementary textbooks

Telegraphers' manuals

Beginners' primers

Popular works

Cf. TK9941-9946, Construction for amateurs  
Pocketbooks, tablos, etc.

Cf. Wiremen's manuals, diagrams, etc.

General special

Theory of telegraphy

Specifications and contracts (General)

Management of telegraph enterprises

Cf. HE7661, Business administration of telegraph enterprises

TK5381, Management of telegraph stations

Office organization

Records. Correspondence

Technical reports of telegraph companies. By

Financial and other non-technical reports,

HE7797-8630.5

Catalogs of telegraph apparatus and supplies (

Telegraph plants. Stations. The line

General works

Stations

General works

Central telegraph stations

General works

Special. By country, A-Z

Branch stations

Power production and special machinery

Electric collection

Management of telegraph stations (Technical)

Cf. TK5283, Management of telegraph stations

Telegraphers' manuals, see TK5263

Testing of telegraph apparatus, lines and materials

Cf. TK5445, Inspectors' manuals

Distribution. Construction. Connections

Including works on telegraph and telephone

Wiring of telegraph circuits

Cf. TK6341-6345, Wiring of telephone circuits

Telegraph wiremen's manuals. Inspectors' manuals

Diagrams of connections, etc.

Cf. TK5266, Pocketbooks and tables for  
engineers

The line

Cf. TK6351-6379, Telephone lines

Overhead lines

General works

Line material (General)

Details

e. g. Poles and crossarms, guys and

Underground lines

General works

Conduit material (General)

Details

Cables, see TK5481

Telegraph wires and cables

Submarine cables, see TK5671

Switchboards and accessories (for line connections)

Switchboards for electric power in telegraph

Systems and instruments for telegraphing

Systems and instruments for making connections

see TK5491

General works

General special. Telegraph alphabets

Early to 1830

Claims of inventors, see TK5117-5118

Optic systems. Dial telegraphs. Non-automat  
electrolytic telegraphs

Acoustic systems and instruments

General works

General special. Buzzor systems

Simplex. Ordinary. High-speed

Duplex (two messages simultaneously, in oppo  
directions)

Quadruplex or synchronous (four messages sin  
in two directions)

Multiplex (more than four messages simultane

Automatic transmitting and receiving systems a  
instruments

General works

Printing

(Letters or characters printed directly)

Writing. Autographic

Ink impression or inking receiving systems a  
instruments

Perforating transmitting systems and instrum  
forated paper-fillet in transmitter and in  
in receiver. Synchronographs

Chemical (Electrochemical. Photochemical)

Cf. TK6600, Picture telegraph

Induction systems

Telegraph systems. By application, A-Z

.T7 Train telegraph systems

Cf. TK5550, Induction systems

Instruments (General)

Special, with system, TK5515-5569

Keys

Sounders and relays

Relays

Submarine telegraph

Periodicals, societies, etc.

History

General works

By country, A-Z

Including documents

Geographical subdivisions

General works

Atlantic submarine telegraph

Including life and works of C. W. Field

Pacific submarine telegraph

Indian Ocean submarine telegraph

General works

Comprehensive treatises

Elementary textbooks

Popular works

Pocketbooks, tables, etc.

General special

Station. Construction. Component parts, etc.

Submarine telegraph - Continued

Cables and cable laying

General works

Cable laying and repairing

The cable

Cf. TK5481, Telegraph cables (General)

Systems and instruments

Radiotelegraph. Wireless telegraph

Military wireless telegraph, see US610

Naval wireless telegraph, see VG76-78

Navigation signals, see VK397

Coast Guard service (U. S.), see HJ6645

Wireless telephone, see TK6340-6571.5

Economics, see HE8660-8688

Periodicals, societies, etc.

Collected works (nonserial)

Dictionaries and encyclopedias

Directories of wireless stations, see HE8663

History

Special countries

United States

States, A-W

Canada

Latin America

West Indies

South America

Europe

Asia

Africa

Australia

New Zealand

Pacific islands

Arctic regions

Biography

Collective

Individual, A-Z

Study and teaching. Schools

Laboratory manuals

General works

Comprehensive treatises

Elementary textbooks

Operators' manuals

Popular works

Amateurs' manuals for construction, see

Pocketbooks, tables, etc.

General special

Theory

Patents

Stations for radiotelegraph

Special applications

General works. Position finding, etc.

Aeronautical, see TL693-696

General special

e. g. Control of torpedoes, etc.

Systems and instruments for radiotelegraph

General works, see TK5741-5747

Special systems

Instruments

General works

Coherers

Other special

General works  
Loudspeakers  
Magnetic tape and magnetic tape heads  
Data tapes, see TK7895.D3  
Microphones  
Cf. TK6478, Telephono transmitters  
Recorders and recording (Magnetic), see TK7881.6  
Sound systems (General), see TK7881.4

### TELEPHONE

Military telephone systems, see UG620

Periodicals, societies, etc.  
Congresses. Conventions  
Collected works (nonserial)  
Dictionaries and encyclopedias  
Directories of the telephone industry  
History  
General works  
Claims of inventors  
General works  
Special. By name, A-Z  
e. g. .B4 Bell  
.P6 Pickering  
.S8 Strong  
Special countries. Table I<sup>1</sup>  
Technical reports of telephone companies, see  
Biography  
Collective  
Individual, A-Z  
Study and teaching  
Special schools  
United States  
Other countries, A-Z

General works  
Telephone plants, see TK6201-6285  
Telephone systems and instruments, see TK640  
Comprehensive treatises  
Elementary textbooks  
Operators' manuals  
Telephone wiremen's manuales, see TK6345  
Beginners' primers  
Popular works. Juvenile works  
Amateurs' manuals for construction, see TK  
Pocketbooks, tables, etc.  
Examinations, questions, etc.  
General special  
Theory of the telephone  
Specifications and contracts (General)

6185 Management of telephone companies  
 6186 Cf. HE8761-8791, Business administration  
 6187 companies  
 TK6281, Management of telephone stations  
 Office organization  
 Records, correspondence, etc.  
 Technical reports of telephone companies. B  
 Financial and other non-technical reports  
 HE8841- 9680.5  
 6188 General special  
 e. g. Rural telephones, estimates  
 6195 Catalogs of telephone apparatus and supplies  
Telephono plants. Stations. The line  
 6201 General works  
 Stations. Central telephono stations. Ex  
 6211 General works  
 6241 Substations  
 6271 Power production and special machinery  
 Central stations (General), see TK11  
 6278 Batteries (Special)  
 6281 Management of telephone stations  
 Cf. TK6183, Management of telephono  
 6285 Testing of telephone apparatus, line and m  
Distribution. Construction. Connections  
 6301 General works  
 6341 Wiring of telephone circuits  
 6343 General special  
 e. g. Phantom circuits  
 6345 Telephone wiremen's manuals. Inspectors  
 Cf. TK3205, Wiring manuals for elect  
 TK5445, Telegraph wiremen's manu  
 TK6163, Telephone operators' man  
 6351 The line  
 Cf. TK5451-5468, Telegraph (The line)  
 6352 Overhead or aerial lines  
 Telegraph (Overhead lines), see TK54  
 6365 Underground lines  
 Submarine telephone cables  
 History  
 By country, A-2  
 Geographical subdivisions  
 Atlantic Ocean  
 Pacific Ocean  
 General works  
 Treatises  
 Popular works. Juvenile works  
 6370 Telephone wires and cables  
 6372 Telegraph wires and cables, see TK548  
 6373 Switchboards and accessories for line com  
 6375 Switchboards for electric power for te  
 TK6271  
 6391 General works  
 6392 General special  
 Systems for making connections  
 Manual systems  
 Automatic systems

Systems and instruments for making connections, see TK6391-6397

6401 General works

6418 Catalogs of instruments  
Cf. TK6195, Catalogs of apparatus

6421 Special systems and instruments  
Cf. TK6394-6397, Systems for making

Instrumente

6471 General works

6473 Technique of telephone instruments

6475 Transmitters

6478 Microphones

6481 Receivers

6500 Telegraphones. Telephonographs.  
Dictographs. Mechanical telephones

6525 Simultaneous telegraph and telephone

## RADIO

Including wireless telephone  
Cf. QC661-680, Electric waves

6540 Periodicals, societies, etc.

6541 Congresses

6542 Yearbooks

6543 Collected works (nonserial)

6544 Dictionaries and encyclopedias  
Biography

6545.A1A-Z Collective  
.A2-Z Individual, A-Z

6547 History

6548 By country, A-Z

6550 General works  
Cf. TK9956, Amateur construction

.7 Popular works. Juvenile works

6552 Tables, calculations, etc.

6553 General special  
Testing, standards, repairing, safety,  
(Radiotelephone), etc.

6554 Study and teaching. Research

.5 Examinations, questions, etc.

6555 Directories of radio stations  
Cf. TL695.5, Aircraft stations

6557 Trade directories

.5 Radio stations  
Cf. TH4655, Construction of radio stations

6558 Special radio stations. By place, A-Z  
e. g. .P5 Pittsburgh, KDKA

6559 Patents

Apparatus

6560.A1-Z4 General works  
Prefer TK6561-6565

.Z5A-Z Trade publications

6561 Sending apparatus. Transmitters

6562 Special, A-Z  
e. g. .F2 FM broadcasting  
.S7 Stereophonic broadcasting

6563 Radio receiving apparatus  
Including catalogs



Radio receiving apparatus - Continued

Special, A-Z

- c. g. .F7 Frequency modulation radios
- .F6 Portable radios
- .S5 Short wave radios
- .T7 Transistor radios

Other radio apparatus, A-Z

- .A55 Amplifiers
- .A6 Antennas
- .C3 Cathode-ray tubes
- .C6 Coils
- .C65 Condensers
- .D4 Detectors
- .D5 Direction finders
- (.E6) Electron tubes, see .V3
- .F5 Filters
- .F7 Frequency changers
- Loudspeakers, see TK5983
- .M35 Mains supply
- Microphones, see TK5986
- .O7 Oscillators
- .P3 Panels
- Receivers, see TK6563
- .R4 Recording apparatus
- .R42 Rectifiers
- .R426 Resistors
- .R43 Resonators
- .S9 Switchgear
- .T7 Transformers
- .T73 Transmission lines
- .V3 Vacuum tubes
- .V6 Voltage regulators
- .W3 Waveguides

Special applications of radio, A-Z

- Aircraft, see TL693-696
- .A8 Automobiles
- (.B7) Broadcasting, see PN1991-1991.9
- .C5 Citizens radio service
- Military radio systems, see UG610
- .M6 Mobile communication systems
- Naval radio systems, see VG76-78
- Navigation, see VK397
- .P6 Police
- .R3 Railroads

Extraterrestrial radio communication

Radio in astronautics, see TL3035

Special celestial bodies, A-Z

.M6 Moon

RADAR

Periodicals, societies, congresses, etc.

Dictionaries and encyclopedias

General works

Popular works. Juvenile works

Tables, calculations, etc.

General special

- 6585                    Apparatus General works  
 6587                    Transmitting apparatus  
                      Including transmitter-receiver unit  
 6588                    Receiving apparatus  
 6590                    Other apparatus, A-Z  
                      .A5 Amplifiers  
                      .A6 Antennas  
                      .C3 Cathode-ray tubes  
                      .I5 Indicators  
                      .M5 Microwave lenses  
                      .O7 Oscillators  
                      .R4 Resonators  
                      .S4 Servomechanisms  
                      .V6 Voltage regulators  
                      .W3 Waveguides  
 6592                    Special types, A-Z  
                      e. g. .M6 Monopulse  
                      .S4 Search radar  
 6595                    Special applications of radar, A-Z  
                      To be classified here unless provided  
                      Aeronautics, see TL693-696  
                      Military science, see UG610  
                      Naval science, see VG76-78  
                      Navigation, see VK560  
                      Shipborne equipment and installations,  
 6600                    Phototelegraphy. Picture telegraphy  
                      Including radio photographs  
                      Cf. TK6710-6720, Facsimile transmission

## TELEVISION

Cf. PN1992-1992.9, Television broadcasts

- 6630.A1A-Z            Periodicals, societies, etc.  
                      .A2-Z            General works  
 6634                    Dictionaries and encyclopedias  
                      Biography  
 6635.A1A-Z            Collective  
                      .A2-Z            Individual, A-Z  
 6637                    History  
 6638                    By country, A-Z  
 6640                    Popular works. Juvenile works  
                      Cf. TK9960, Television for amateurs  
 6641                    Laboratory manuals  
 6642                    Handbooks, manuals, etc.  
 6643                    General special  
 6644                    Television as a profession  
 6645                    Directories of television stations  
 6646                    Television stations  
                      Cf. TH4656, Construction of television  
                      Television relay systems  
 6648                    General works  
 6649                    Special systems and projects, A-Z  
                      Apparatus  
 6650                    General works  
 6651                    Transmitting apparatus  
 6653                    Receiving apparatus

6655

Other, A-Z

.A5 Amplifiers

.A6 Antennas

.C3 Camera tubes

Cathode-ray tubes, see .P5

Electronic cameras, see TK882

.O7 Oscillators

.P5 Picture tubes

.T7 Transformers

.U6 Ultrahigh frequency apparatus

.V5 Video tape recorders and records

6670

Color television

6680

Closed-circuit television

6683

Underwater television

6710

Fecsimile transmission

6720

Ultrafax

## INSTALLATION OF HOUSEHOLD APPLIANCES

Electric space heating, see TK7409-7410

General works

7018

Treatises

Cf. TK9901, Amateur constructors' manuals

7019

Popular works

7028

Catalogs

Electric bells and buzzers

Buzzer systems in telegraphy, see TK55

7108

General works

7109

Popular works

7118

Catalogs of electric bells

Electric annunciators and alarms

Cf. TH9739, Security in buildings

7201

General works

7221

Annunciators

Alarms

7241

General works

(7251)

Burglar alarms, see TH9739

(7271)

Fire alarms, see TH9271

(7291)

Electric ignition of gas, see TH6885

(7301)

Electric clocks, see TS44

(7611)

Electric train signaling, see TF615-640

Train telegraph systems, see TK5569.T7

Miscellaneous electrical industries

7725

Manufacture of electrodes, carbons, etc.

Use of carbons for arc lamps, see TK

## ELECTRONICS

Radio, see TK6540-6571.5

Radar, see TK6573-6595

Television, see TK6630-6683

7800

Periodicals, societies, yearbooks, etc.

7801

Congresses. Conventions

7803 Collected works (nonserial)  
 7804 Dictionaries and encyclopedias  
 7805 Directories  
       Biography  
 7806       Collective  
 7807       Individual, A-Z  
 7809 History  
       By country  
       United States  
       Other countries, A-Z  
       General works  
 7815       Treatises  
 7816       Elementary textbooks  
 7817       Outlines, syllabi, etc.  
 7818       Laboratory manuals  
 7819       Popular works  
 7820       Juvenile works  
 7825       Handbooks, pocketbooks, tables, etc.  
 7828       Addresses, essays, lectures  
 7835       General special  
 7845       Electronics as a profession  
       Patents  
 7850.A1A-Z       Periodicals, societies, etc.  
       .A2-Z       General works  
 7855       Research  
 7860       Study and teaching  
 7862       Problems, exercises, etc.  
 7866       Drawing. Diagrams, etc.  
 7867       Electronic circuits (General)  
       .5       Noise  
 7868       Special circuits, A-Z  
           Prefer TK7871.2-7872 for circuitry of  
           apparatus and components, e. g. TK7871.2  
           Amplifier circuits  
           .B7 Bridge  
           .P6 Power supply  
           .P8 Pulse  
           .S9 Switching  
           .T7 Trigger  
       Apparatus and materials  
 7870       General works  
 7871       Materials (General)  
       .15       Special, A-Z  
           .C4 Ceramic materials  
           .F4 Ferrites  
           .F5 Films  
           .P4 Phosphors  
       Amplifiers  
       .2       General works  
           Including vacuum-tube and transistor  
       .22       Dielectric  
       .23       Magnetic  
           Cf. TK2851, Electric controllers  
       .24       Ferrometric  
           Rotating, see TK2699  
       .3       Lasers  
           Cf. TK5103.6, Laser communication  
       .35       Gas lasers

Apparatus and materials  
Amplifiers - Continued

7871.4  
.58

Masers

Other, A-2

.D46 Differential

.D5 Direct current

Antennas and waveguides

Radar, see TK6590.A6

Radio, see TK6565.A6

Television, see TK6655.A6

.6

Antennas

.65

Waveguides

.7

Electron tubes

.72

Vacuum tubes

.73

Cathode-ray tubes

.74

Klystrons

.75

Magnetrons

.76

Storage tubes

.77

Traveling-wave tubes

.79

Other, A-2

.T7 Trochotrons

.8

Gas tubes

.82

Mercury-arc rectifiers

.83

Thyratrons

.84

Other, A-2

.85

Semiconductors

.86

Diodos

.87

Tunnel diodes

.88

Varactors

.89

Other, A-2

.9

Transistors

.92

Junction

.95

Field effect

.96

Other, A-2

.98

Thermistors

.99

Other, A-2

.T5 Thyristors

.V3 Varistors

Photoelectronic devices, see TK8300-83

7872

Other, A-2

Apparatus and components to be classified  
otherwise provided for in Classes

Circuits, Printed, see .P65

.C56 Coils

.C65 Condensers

.C7 Counters

.C8 Current converters

.D4 Delay lines

.E45 Electron gun

.F4 Ferrite devices

.F5 Filters (Electric)

.F7 Frequency changers

.H3 Hall effect devices

.N6 Noise generators

.O7 Oscillators

.P54 Piezoelectric devices

.P65 Printed circuits

.R35 Rectifiers

.R38 Relays

.R4 Resistors

	<u>Apparatus and materials</u>
7872	Other, A-Z - Continued
	.S8 Superconductors
	.T7 Transformers
	.V55 Voltage regulators
7874	Microelectronics
.5	Catalogs of microelectronic equipment
	<u>Microwaves</u>
7876	General works
	Amplifiers, <u>see</u> TK7871.2-58
	Heating, <u>see</u> TK4601
	Tubes, <u>see</u> TK7871.7-84
	Waveguides, <u>see</u> TK7871.65
7878	<u>Electronic measurements</u>
.2	Time measurements
.4	Electronic instruments
	Cf. TK301-396, Electric meters
.5	Auxiliary equipment
.6	Probes
.7	Cathode-ray oscillograph (Oscilloscope)
7879	Voltmeters
.2	Vacuum tube voltmeters
	<u>Applications of electronics</u>
7880	General works
7881	Industrial electronics
	Special applications
.2	Electronic control
.4	Sound systems (General)
	Electroacoustics, <u>see</u> TK5981-5986
.6	Magnetic tape recorders and recording
	Cf. TK5981-5986, Electroacoustics
.7	High fidelity systems
.8	Stereo high fidelity systems
.9	Theaters, auditoriums, etc.
7882	Other, A-Z
	To be classified here unless otherwise
	in the field of application
	.E2 Eavesdropping
	Facsimile transmission, <u>see</u> TK67
	.I6 Information display systems
	.M4 Metal detectors
	Mobile communication systems, <u>see</u>
	.P7 Proximity detectors
	.S3 Scanning systems
	.S65 Speech processing systems
	Telecommunication, <u>see</u> TK5101-67
	<u>Computer engineering. Computer hardware</u>
	Including design and construction
	Cf. QA76-76.8, Computers (General),
	processing, computer software,
	QA267-267.5, Machine theory
	T58.6, Industrial information systems
	TJ212-225, Control engineering
7885.A1A-Z	Periodicals, societies, congresses, etc.
.A2A-Z	Dictionaries and encyclopedias
.A3A-Z	Symbols and abbreviations
.A4A-Z	Directories
.A5A-Z	History
.A6-Z	General works
.4	Popular works
.5	Juvenile works

Maintenance and repair

Input-output equipment

General works

Special

Data tape drives

Analog-to-digital converters. Digital-to-converters

Printout equipment

Analog computers

Digital computers

Circuits

Including logic and switching circuits

Special computers. By name, A-Z

e. g. .B4 Besm

.15 Illiac

.R4 Reac

.S4 Soac

.37 Strela

.S8 Swac

.U6 Univac

Special computer components, A-Z

.A5 Amplifiers

.A8 Automatic check equipment

.C3 Cathode-ray tube memory systems

.C7 Cryotrons

.D3 Data tapes

.F8 Function generators

Input-output equipment, see TK7887.5-

.M3 Magneto memory

.M4 Memory systems

.O6 Optical equipment

.P3 Parametrons

.S65 Speech recognition systems

Photoelectronic devices (General)

For special applications, see field of applica

e. g. TR260.5, Electric eye cameras

Periodicals, societies, congresses, etc.

General works

Photomissive tubes. Phototubes

Photodiodes

Photomultipliers

Image converters and intensifiers

Cf. TK8334, Solid-state image intensifiers

Semiconductor devices

Photovoltaic cells

Solar batteries, see TK2960

Photoconductive cells

Phototransistors

Solid-state image intensifiers

Other devices, A-Z

NUCLEAR ENGINEERING. ATOMIC POWER

Periodicals, societies, etc.

Congresses

Exhibitions. Museums

Subarranged like TA6

Collected works (noneeriel)

Dictionaries and encyclopedias  
Directories  
Country divisions. Table I<sup>1</sup>  
General works  
Elements. Popular works  
Juvenile works  
Laboratory manuals  
Handbooks, tables, etc.  
Radiation environment procedures and equipment

Cf. TK9210, Shielding

Remote handling

Manipulators

Safety measures

Decontamination

Cf. RA569, Public health

TD427.R3, Water pollution

TD887.R3, Air pollution

Patents

General special

Addressees, essays, lectures

Nuclear engineering as a profession

Study and teaching

General works

United States

Special schools. By place, A-Z

Other countries, A-Z

Special schools. By place, A-Z

Instruments

Nuclear counters

Cf. QC787.C6, Counters

Neutron sources

Materials

Periodicals, societies, etc.

General works

Nuclear reactors

Atomic powerplants for electricity, see TK134

Fission reactors

Special types, A-Z

.B6 Boiling water reactors

.B7 Breeder reactors

.F5 Fluid fuel reactors

.G3 Gas-cooled reactors

.H4 Heavy-water reactors

.O7 Organic moderated reactors

.P7 Pressurized water reactors

.S6 Sodium graphite reactors

.S65 Solid fuel reactors

Fusion reactors

Fuel elements

Moderators

Shielding

Cooling

Nuclear reactors for propulsion

Cf. TJ623, Atomic locomotives

TL704.1, Atomic engines for aircraft

TL783.5, Nuclear rockets

VM774, Marine nuclear reactor plants



Chemical processes. Radiochemistry  
Reactor fuels. Enrichment. Reprocessing  
Radioisotopes. Radioactive substances  
Catalogs, pricelists, etc.

ELECTRICITY FOR AMATEURS. AMATEUR CONSTRUCTORS' MANUALS

Periodicals, societies, etc.  
General works  
Magnetoelectric machines  
Generators and motors  
Transformers  
Electric batteries  
Electric lighting and lamps  
Electric bells, see TK7109  
Telograph  
Wireless telegraph  
Telephone  
Radio. Wireless telephone  
Television  
Electronics (General)  
Miscellaneous  
Electric toys

- Periodicals and societies, by language of publication  
    English  
    French  
    German  
    Other languages (not A-Z)  
Yearbooks  
Congresses  
Exhibitions. Museums. Collectors and collecting  
    Subarranged like TA6  
Collected works (nonserial)  
Dictionaries. Encyclopedias  
Directories  
History. Pictorial works  
Special countries. Table I<sup>1</sup>  
    Including registers  
Biography  
    Collective  
    Individual, A-Z  
General works  
    Cf. TL200-229, Automobiles  
    Early to 1890  
    1890-  
    Elementary textbooks  
.5 Popular works  
    Juvenile works  
    Manuals, pocketbooks, etc.  
Motor vehicle operation. Automobile operation  
.5 Cost of operation  
.6 Fuel consumption  
Maintenance and repair  
.3 Drivers  
    Including health and psychology  
    Cf. HD8039.A76, Automobile driving as an occupation  
    HE5614, Traffic accidents, safety, etc.  
.35 Medical and psychological examination  
.4 Drivers' tests  
Driving  
.5 General works  
    Special countries  
.52 United States  
.55 Other countries, A-Z  
.6 Driver education  
.65 Elementary and secondary school courses  
.66 By country, A-Z  
.7 Special methods and equipment, A-Z  
    .IV7 Driving simulators  
Service stations  
.5 Lubrication and lubricants  
General special  
    c. g. Painting, upholstering, etc.  
Addresses, essays, lectures

Study and teaching. Automobile schools  
Examinations, questions, etc.  
Research  
Automobile appliances and supplies  
Cf. TL272, Electric equipment  
Catalogs of dealers  
Special powers, see TL200-229  
Automobile purchasing. Buyers' guides  
Motor vehicle fleets  
Parking facilities

Including parking lots and parking garages  
Special automobiles, by power

Steam automobiles

Steam wagons, trucks, etc., see TJ705

Gasoline automobiles

Where possible use TL144-165

Gasoline locomotives, see TJ621

General works

Popular works. Juvenile works

Manuale, pocketbooks, etc.

Maintenance and repair, see TL152

General special

Construction details

Motors. Engines

Cf. TJ785-790, Internal combustion engines

Two-stroke cycle engines

Carburetors and carburetion

Ignition devices. Magnetos

Other, A-Z

Cooling system, see .R3

.F8 Fuel systems

.O5 Oil system

.R3 Radiators. Cooling system

.S8 Superchargers

.V3 Valves

Special makes, A-Z

Catalogs, handbooks, etc.

Alcohol automobiles

Electric automobiles and their batteries, etc.

Industrial vehicles and trucks

Compressed-air automobiles

Gas turbine automobiles

General works

Automotive gas turbines

Other, A-Z

Automobiles for freight, etc. Trucks

Steam wagons, trucks, etc., see TJ705

Campers and coaches, see TL298

Periodicals, societies, etc.

General works

Motortruck drivers, driver training and driving

Cf. HD7269.A76, Industrial hygiene and welfare  
truck drivers

HD8039.A76, Automobile driving as an occupation

HE5620-5720, Regulations and special provisions

Special types, makes, etc., A-Z

e. g. .F6 Four Wheel Drive Auto

- Motorbuses
  - Cf. HE5601-5720, Stage lines, omnibuses, etc.  
(Economic aspects)
- Motorbus drivers, driver training, and driving
- Tractors
  - Cf. S711, Transportation and power transmission  
(Use on farms)
  - TJ700, Steam traction engines
- Periodicals, societies, etc.
- General works
- Tractor driving
- Special types, makes, etc. (not A-Z)
- Tracklaying vehicles
  - Crawler tractors, see TL233.5
  - Military tanks, see UG446.5
- Automobile trains
- Racing automobiles
- Midget cars. Karts
- Dune buggies
- Models
  - Cf. GV1570, Model car racing
- Design, construction and equipment
  - Cf. TL210, Motors
  - General works
  - Safety factors. Safety standards
  - Dynamics
    - Including effect of soil mechanics
  - Aerodynamics
  - Human engineering in design
    - Including motortrucks, motorbuses, etc.
  - Automotive drafting
  - Special
    - Frame. Chassis. Carriage body
    - Springs
    - Steering gear
    - Running gear. Power trains
    - Clutches
    - Transmission devices
      - Automatic transmission devices
    - Brakes
    - Wheels and tires
    - Heating and ventilation equipment
    - Air conditioning
    - Electric equipment. Batteries
      - Starting, lighting and ignition devices
    - Cf. TK2921, Primary cells
    - TK2941, Storage batteries
    - TL213, Ignition
    - TL220-223, Batteries for electric automobiles
  - Electronic equipment
  - Automobile headlights
  - Other details
- Patents
- Testing (General)
  - Cf. TL242, Safety factors in motor vehicle construction
- Endurance tests
- Traction. Skidding. Traction tests
  - Cf. TE450, Roads and pavements
- Industrial power trucks
- Loaders (Automotive)

- 7 Trailers  
 Cf. TX1100-1105, Mobil  
 8 Truck-mounted campers and  
 0 Cycle cars  
Cycles  
 See also GV1041-1059, Cy  
 0 General works  
 Including history  
 5 Early forms (Velocipedes,  
 Bicycles and tricycles  
 0 General works  
 Motor bicycles, see TL44  
 Details  
 5 Frame  
 0 Driving gear  
 5 Tires  
 0 Repairs  
 5 Catalogs and other trade  
 Including cycles  
 7 Patente  
 Including cycles and  
Motorcycles  
 9 Dictionaries  
 0 General works  
 .5 Motorcycle riding  
 3 Motor bicycles  
 5 Motors, etc.  
 8 Special makes, A-Z  
 e. g. .A7 Ariel  
 0 Motor scooters  
 3 Special makes, A-Z  
 0 Motor sledges  
 0 Moon cars

# AERONAUTICS. AERONAUTICAL

- Cf. GV750-770, Air sports  
 HD9711, Airplane indu  
 HD9711.3, Lighter tha  
 aspects)  
 HD9711.5, Aerospace 1  
 HE9761-9900, Air tran  
 JX5124, 5397.A4, Air  
 JX5760-5775, Internat  
 K, Law  
 UG630-670, Military a  
 VG90-95, Naval aerona  
 4 Periodicals, societies, year  
See also TL521-532, Seri  
 e. g. TL521.A3-35, U.  
 for Aeronautics; TL526  
 Research Council  
 0 International  
 .5 International Civil Avia  
 Technical material a  
 the organization w  
 nature. For admin  
 .1 English language

2 French language  
     Including France.  
         technique de l  
 3 German language  
     Including German  
         sterium. Mach  
 4 Other (not A-Z by lan  
 5 Congresses  
 6 Exhibitions. Museums.  
     Subarranged like T  
 7 Collected works (nonse  
 8 Scrapbooks  
 9 Dictionaries, encyclope  
     Symbols. Abbreviatio  
 2 Directories. Registers  
     Registers of aircraft  
     Registers of pilots  
 .7 Patents  
 3 Catalogs of materials  
 4 History  
 5 General works  
 6 Antiquities and loges  
 Special regions or coun  
     Cf. TL539-540, Bio  
 1 America. United Sta  
     U. S. National Aor  
 .3 Serials and coll  
     word of title  
         e. g. .06  
 .312 Monographs  
 .5 Regions  
 2 States, A-W  
 3 Canada and Newfoundl  
 4 Latin America, Centr  
     By country or isla  
 5 South America, A-Z  
 6 Europe, A-Z  
     e. g. .G7 Grea  
 7 Asia, A-Z  
     e. g. .P4 Phil  
 8 Africa, A-Z  
 9 Australia  
 .5 New Zealand  
     Pacific Ocean and is  
 0.A1A-Z General works  
 .A5-Z Special islands, A  
 1 Transoceanic flights  
 2 Arctic and Antarctic  
 7 Awards, prizes, etc.  
     Cf. TL721.5-6, Air  
 Biography  
 9 Collective  
 0 Individual, A-Z  
 General works  
 4 Early to 1900  
     Cf. TL516, Antiq  
 5 1900-  
 6 Textbooks  
 .5 Examinations, questi

- 546.7 Popular works  
 547 Juvenile works  
 549 Pictorial works  
 551 Handbooks, pocketbooks, tables,  
     .5 High-speed aeronautics  
         Hypersonic aerodynamics, see  
         Supersonic aerodynamics, see  
         Transonic aerodynamics, see T  
 552 Civil aviation (Technology)  
     Cf. HE9761-9900, Air transport  
         TL515-532, History of aer  
         TL664-664.3, Use of airsh  
         TL720-723, Special uses of  
 553 Miscellaneous aspects of the gene  
     .5 Accidents and their prevention.  
         Cf. HE9784, Air transportat  
             TL697.53, Safety devices  
         Geography and aviation, see GL  
         Insurance, see HQ8811.A9, HQ997  
         Survival (after airplane accide  
         Search and rescue  
         Survival and rescue adventures  
             .A1A-Z Periodicals, societies  
             .A2-Z General works  
         Aeronautics in art, see N8217.A  
         Aeronautics in literature, see  
             Collections, extracts, etc.,  
             Poetry, see PN6110.A2  
             Wit and humor, see PN6231.A  
 555 Physiological, psychological, a  
     Airsickness, influence of s  
         ments for flying. Medic  
     Cf. RA615.2, Public health  
         RA642, Transmission of  
         RA655-758, Quarantine  
         RC1050-1097, Aviation m  
     .5 Sanitation, disinfection, po  
Meteorological  
 556 General works  
 557 Special, A-Z  
     .A5 Air currents. Winds  
     .A8 Atmospheric temperatur  
         Cf. .D4, Density a  
     .G4 Charts  
     .G6 Clouds  
     .C7 Condensation trails  
     .D4 Density altitude. De  
     .F6 Fog control  
     .I3 Ice prevention  
     .R4 Reporting and forecae  
     .S7 Storms  
     .V5 Visibility  
         Wind, see .A5  
 558 By country or region, A-Z  
     e. g. .A1 General  
         .A5 Antarctic re  
         .F8 France  
         .G4 Germany  
 559 Addresses, essays, lectures

- Cf. LBL594.5, Elementary education
- .1 United States
- .2 Special schools, A-Z
- .25 Employee training in factories
- .A1A-Z General works
- .A2-Z By company, A-Z
- .3 Other countries, A-Z
- .4 Special schools, A-Z
- Flying schools, see TL713
- 561 Aeronautics as a vocation
- 563 Electronic data processing
- 565 Aeronautical research
- Research equipment. Laboratory
- 566 General works
- 567 Special, A-Z
- o. g. .B3 Balancee
- .B4 Basins. Water
- .I6 Instruments
- .M6 Models for wind
- .N6 Nozzles
- .P6 Planotables
- .S4 Shock tubes
- .T6 Towing apparatus
- .W5 Wind tunnels
- 568 Special institutions, A-Z
- Whether conducted by government
- For the research reports, publications of such institutions
- Mechanics of flight: Aerodynamics
- 570 General works
- 571 Supersonic aerodynamics (General)
- Including transonic aerodynamics
- For special topics, see TL
- .5 Hypersonic aerodynamics (General)
- For special topics, see TL
- 573 General special
- 574 Special topics, A-Z
- .A37 Aeroelasticity
- .A4 Aerofoils, "Profils d'ailes"
- .A45 Aerothermodynamics. Aerodynamics
- .B6 Boundary layer
- .C3 Cascadee
- .C4 Compressibility
- .C6 Control
- .D6 Downwash
- .D7 Drag. Head resistance
- .F5 Flow
- .F6 Flutter
- .F7 Friction
- .G7 Ground effect. Ground
- .I5 Interference
- .L3 Laminar flow
- .L5 Lift. Thrust
- .M3 Magnus effect
- .M6 Moments. Pitch, yaw, roll
- .P7 Pressure. Pressure distribution
- Resistance, see .D7
- Air resistance, see .D7



Mechanics of flight. Aerodynamics

Special topics, A-Z - Continued

- .S4 Shock waves
- .S55 Sonic boom
- .S6 Spinning
- .S7 Stability. Oscillations. Damping
- .T8 Turbulence. Burbling
- .V5 Vibration
- .V6 Vortex theory
- .W3 Wakes
- (.W5) Wing and tail flutter, see .F6

Natural flight

Cf. QL698.7, Flight of birds

Soaring

Hovering

Aerostatics

Air navigation. Astronomy and navigation for air

General works

Logbooks, maps, charts, tables, etc.

Cf. QB7-9, Ephemerides

Special methods. Latitude and longitude

Cf. VK565-567, Navigation

Inertial navigation

Instruments

General works

Special, A-Z

- .A3 Accelerometer
- .A5 Airspeed indicator
- .A6 Altimeter
- Anemometer, see QC932
- .A8 Autosyn indicator
- .B3 Barograph
- .C5 Cinématrailleur
- .C58 Compass (Gyroscopes)
- .C6 Compass (Magnetic)
- .D7 Drift indicator
- .E2 Earth inductor compass
- .F5 Flight recorders
- .P7 Pressure instruments
- (.R2) Radio compass, see TL696.C7
- .R3 Rate of climb indicator
- .S4 Sextant
- .S7 Stall warning systems
- .T4 Tensionmeter
- .T5 Theodolite
- .T53 Thermometers
- .T8 Turn and bank indicator

Guidance systems and automatic control

Automatic pilots. Gyropilot

Engine instruments

General works

Special, A-Z

e. g. .T3 Tachometer

Sailing directions. Pilot guides, see TL726

Aircraft (General)

Including both lighter-than-air and heavier-

General works

Aircraft (General) - Continued

Identification marks and symbols

Cf. TI694.14, Identification of aircraft by r  
(IFF equipment)Lighter-than-air. AerostationBalloons

Periodicals, societies, etc.

General works. Free spheric balloons

General special

History

General works

Invention and early history to 1800

Including the Montgolfiers

1800-

Special ascensions. Special aeronauts. Pers  
narratives

e. g. .A1 Collections  
 .B6 Blanchard  
 .F6 Flammarion  
 .G6 Goddard, Eugène  
 .G7 Groen, Charles  
 .L8 Lunardi  
 .O7 Orlandi  
 .P5 Picard  
 .S55 Silberer  
 .T5 Tissandier  
 .T6 Tournachon

Special balloons, A-Z

Design and construction

Rigging

Parts and equipment, A-Z

e. g. .A6 Anchor  
 .D2 Ballast  
 .B3 Ballonet  
 .B4 Basket  
 .D7 Drag rops  
 .E6 Envelope  
 Instruments, see TL589  
 .N4 Net  
 .R5 Rip panel  
 .V3 Valves

Operations of free balloons

Instructions and textbooks

Licensing of balloon pilots

Use of free balloons

Cf. GV762-763, Air sports

QC879, Meteorology

UG640-645, Military aeronautics

Sport races, see GV763

Pilot balloons

Sounding balloons

Cf. QC879, Meteorology

Jumping balloons and balloon jumping

Toy and propaganda balloons

Captive balloons

General and spherical

Kits balloons

Equipment for captive balloons

Use of captive balloons

Use in war, see UG640-645

# Aircraft

## Lighter-than-air. Aerostation

### Balloons - Continued

Hot air balloons

Early history, see TL617-618

Miscellaneous projects

Balloon railways, etc.

### Airships

General works

General special

Discussions of the possibility of dirigible ships vs. airplanes, controversial matters of safety, etc.

Special projects to 1900, A-Z

e. g. .D8 Dupuy de Lôme

.G5 Giffard

.M5 Meunier

.R4 Renard

.T55 Tissandier

### Modern airships

Pressure airships

General works

Nonrigid. Blimps

Semirigid

Metal-clad

Rigid airships

Special makes, A-Z

e. g. .Z4 Zeppelin

Individual ships, A-Z. Special voyages. Paratives

e. g. .A4 Akron

.G7 Graf Zeppelin

.L6 Los Angeles

Design and construction

Rigging

Strains and stresses

Performance. Performance calculation

Testing

Model testing

Details and parts

General works

Special, A-Z

e. g. .B3 Ballast

.B7 Bow caps

.G3 Cars

.C6 Control compartment

.E6 Envelope

.F7 Frames

.G3 Gas cells

.K4 Keel

Motor, see TL701-704.7

Propellers, see TL705-707

.S7 Stabilizers

.S8 Steering apparatus

Operation of airships

Use of airships

Transportation, see HE9770.A4

War

Other

Cf. G599, Polar exploration

Lighter-than-air. Aerostation - Continued

Materials and accessories for lighter-than-air

General works

Special

Gas, hydrogen, helium. Inflation machinery

Other special, see TL699

Lighter-than-air craft industry (Technical aspects)

Cf. HD9711.3, Lighter-than-air craft industry  
(Economic aspects)

General works

Special companies, A-Z

Heavier-than-air craft

Airplanes

Periodicals, see TL500-504

General works

History

Development of heavier-than-air craft before

Including models and gliders

Special projects before 1914, A-Z

e. g. .L3 Langley

.M3 Maxim

General special

Airworthiness requirements. Specifications.

Collectors and collecting, see TL506

Design and construction

Drafting and blueprint reading

Manufacturing. Factory equipment and methods

Cf. HD9711, Airplane industry

TL724-724.5, Airplane industry (Technical aspects)

Monoplane, biplane, multiplane characteristics (comparative)

Performance. Performance calculation. Hand characteristics

Rigging, bracing, welding, etc.

Stability, see TL574.S7

Structural analysis and design of air frames

Noise

Testing. Inspection

Model testing

Maintenance and repair

Details and parts

Supportive surfaces

General works

Special, A-Z

e. g. .A6 Angle of incidence

.C3 Camber

.C7 Cruciform wings

.D4 Decalage

Delta wings, see .T7

.D5 Dihedral angle

.D8 Duct inlets

.F6 Fleps

.G3 Gap

.O8 Overhang

.R4 Rectangular wings

.S4 Section

.S6 Slotted wings

.S7 Stegger

Aircraft

Heavier-than-air craft

Airplanes

Details and parts

Supporting surfaces

Special, A-Z - Continued

- e. g. .S9 Sweptback
- .T4 Tips of wings. Taper. Shie
- .T7 Triangular wings
- .W3 Washin and washout

Structural parts and details

- e. g. Ribe, spare, strute, wires, etc.

Folding wings

Control and stabilizing surfaces

General works

Special, A-Z

- e. g. .A5 Ailerone
- .E6 Elevatore
- .F5 Fine. Vertical stabilizer
- .R8 Rudder
- .S8 Stabilizer. Tailplane

Control apparatus. Control stick

Fueolage

General works

Special, A-Z

- e. g. .A5 Air-conditioning
- Cf. .H4, Heating
- .C3 Cabin
- .C6 Cockpit
- .C7 Cowlng
- .F5 Firewall
- .H4 Heating
- .I6 Instrument board
- Instruments, see TL58<sup>c</sup>
- .L6 Longerons
- .P7 Pressurization
- .S6 Soundproofing
- .W5 Windshields

Nacelles

Landing gear. Undercarriage

General works

Special, A-Z

- .A8 Axlos
- .B7 Brakes
- .R4 Retractable landing gear
- .S4 Shook absorbere
- .S5 Skids. Wing and tail skids
- .S6 Skis. Landing gear for use on snow
- .T5 Tires
- .W5 Wheels

Seaplanes

Amphibians

Flying boate. Hulle

Floatplanee. Floats

Convertiplanes. Vertical takeoff and landing air

Airplanes for special uses

Light (or sport). Private planes

Cf. HE9795-9796, Economic aspects

TL721.4, Private flying

Mailplanee

Aeronautics. Aeronautical engineering

Aircraft

Heavier-than-air craft

Airplanes

Airplanes for special uses - Continued

Military planes

Passenger planes

Cf. HE9787, Passenger service

Special equipment, etc., A-Z

e. g. .I6 Interior decoration

.R4 Restaurant

.S4 Seats

.S6 Sleeping accommodations

Racing planes

Transport planes. Cargo planes

Cf. HE9761-9900, Air transportation (Economic aspects)

Special makes. By name of manufacturer, A-Z

.B65 Boeing Aircraft Company

.B68 Bréguet

.D4 De Havilland

.D65 Douglas Aircraft Company

.L6 Lockheed Aircraft Corporation

.R7 Rozhdestvenskii

Airplane materials and accessories

General works

Cf. TL698, Materials of construction

Special, A-Z, see TL699

Radioisotope technology and components

Electrical systems and equipment

General works

Special, A-Z

e. g. .B3 Batteries

.G4 Generators

.L3 Landing lights

.M3 Magnetic recorders

.N3 Navigation lights

Radio, see TL693-696

.S4 Searchlights

.W5 Wiring

Communication methods and equipment

General special

e. g. Signaling, etc.

Electronic methods and equipment. Telegraph. Radi

Television

General works

Special, A-Z

e. g. .A6 Antennas

.C6 Cipher and telegraph codes

.I4 Identification

e. g. IFF

.I5 Inspection

.I6 Interference. Bonding. Shielding

.R4 Receiving

.T35 Telemetry

.T4 Teletype

.T7 Transmitting

Electronic aids to navigation. Radio. Radar. Tel

General works

Directories of radio stations

Television - Continued

## Special, A-Z

- Altimeter, see .H4
- .B4 Beacon
- .B5 Beacon receiver
- .C6 Collision prevention
- .C7 Radio compass
- .C75 Control tower display systems
- .C8 Course computers. Course-line computer
- .D5 Direction finder
- .D6 Distance indicator
- .D65 Distance measuring equipment (Aircraft station)
- Field and runway localizer, see .L3
- Glide path systems, see .L33
- .H4 Height indicator. Altimeter
- .I5 Inspection
- .L3 Landing aids
- .L33 Instrument landing systems
  - e. g. Ground controlled approach,
  - Cf. TL711.B6, Blind flying
  - TL711.L3, Landing
- .M3 Markers
- .O5 Omni-range system
- .R2 Radar
- .R25 Radar air traffic control systems
- .R3 Range
- .T3 Tacan

## Miscellaneous equipment and apparatus, A-Z

- .A1 General works
- .B4 Bearings
- .C6 Clothing for pilots
  - Goggles, see .G6
  - Pressure suits, see .P7
- .F5 Fire prevention
  - Cf. TL730.1, Fire hazards of hangars
- .G6 Goggles
- .H9 Hydraulic equipment
  - Ice prevention, see TL557.I3
- .L3 Landing flares
- .O8 Oxygen apparatus for altitude flight
  - Military equipment, General and Army, see I
  - Navy, see VG90-95
  - Photographic equipment, see TR
- .P5 Pilot ejection seats
- .P6 Pneumatic equipment
- .P7 Pressure suite
- .S3 Safety devices (General)
  - Parachutes, see TL750-758
- .S8 Stabilizing devices

Materials of construction

## General works

## Special, A-Z

- e. g. .A6 Aluminum
  - Including alloys
- .A8 Asbestos
- .D6 Dopes
- .D9 Duralumin

Materials of construction

Special, A-Z - Continued

- e. g. .F2 Fabrics
- .F5 Finishes
- .G6 Glue
- .L3 Lualaba
- .M4 Metals
- .S7 Spruce
- .S8 Steel
- Including alloys
- .T8 Tubes
- .W5 Wire
- .W6 Wood. Timbers
- .W7 Plywood. Laminated wood

Motors. Aircraft engines

General works

General special

Influence of altitude

Installation

Maintenance and repair. Inspection

Performance

Specifications. Standards

Testing

Details and parts, A-Z

- e. g. .C3 Carburetor
- .C5 Connecting rod
- Cooling system, see .R3
- .C6 Cowling
- .C7 Crankshaft
- .C9 Cylinder
- .F8 Fuel feeding and tanks
- .G4 Gearing
- .I5 Ignition devices. Magneto
- .L8 Lubrication
- Magneto, see .I5
- .M8 Mufflers
- .P5 Piston
- .R3 Radiators. Cooling system
- Spark plug, see .I5
- .S7 Starting devices
- .S8 Supercharger
- .V3 Valves. Opening and closing system

Special makes, A-Z

- e. g. .D4 De Havilland
- .H5 Hispano-Suiza

For Great Britain handbooks prefer TL701.G8

Engines other than gasoline

Atomic engines

Diesel engines

Steam engines for aircraft

Model engines

Fuel for aircraft engines

Propellers. Airscrews

General works

Special, A-Z

- e. g. .A2 Abrasion
- .B3 Balancing. Flutter
- .E3 Etching
- .I6 Interference
- .N6 Noise



Aeronautics. Aeronautical engineering

Propellers. Airscrews

Special, A-Z - Continued

- e. g. .P4 Performance. Performance calculation
- .P8 Pusher vs. tractor
- .S4 Slip
- .S5 Slip stream
- .S6 Specifications. Standards
- .S7 Strains and stresses
- .T4 Testing
- .T5 Thrust
- .V4 Vibration

Details and parts, A-Z

- e. g. .B6 Blade section and form
- .B7 Boss
- .G4 Gear
- .H8 Hub
- .P5 Pitch, Adjustable and controllable
- .S6 Spinner
- .T5 Tipping

Nuclear powerplants. Nuclear propulsion for aircraft

Cf. TL704.1, Atomic engines, propeller engine systems

TL783.5, Nuclear rockets, propulsion systems

Periodicals, societies, etc.

General works

By country, A-Z

Jet propulsion

Rocket propulsion, see TL780-785.8

Special types, A-Z

- .R3 Ramjet engines
- .T8 Turbine-propeller engines

Details and parts of jet engines, A-Z

- e. g. Air intakes or inlets, see .I5
- .B4 Bearings
- .C55 Combustion chamber
- .C57 Control systems
- .C6 Cooling systems
- .I5 Intakes or inlets for air
- Roller bearings, see .B4
- Supersonic intakes or inlets, see .I5
- .T5 Thrust reversers

Operation of airplanes. Flying

General works

Including textbooks and instruction books

Special, A-Z

- e. g. Aerobatics, see .S8
- .A5 Airspeed
- .A6 Altitude flying
- See also TL555
- .A7 Special altitude flights. By date
- .B6 Blind flight
- .D7 Dropping of cargo
- .E6 Endurance flights
- Formation flying, Military, see UG630-635
- .L3 Landing
- See also TL696.L3, Radio
- .L6 Loading
- Military maneuvers. Formation flying
- Navigation, see TL586-588.5
- .N5 Night flying
- .R4 Refueling

- 711 Special, A-Z - Continued  
     e. g. .S8 Stunt flying. Aerobatics  
     .T3 Takeoff
- 712 Flight training
- .5 Flight simulators and trainers
- 713 Flying schools. By place, A-Z  
Flying machines other than airplanes  
     Including experimental models, but not to
- 714 Rotor aircraft
- 715 Autogiros  
     Helicopters  
         Cf. TL685, Covertiplanes. Vertical t  
             aircraft
- 716.A1A-Z Periodicals, societies, etc.
- .A2-Z General works
- .5 Operation of helicopters
- .9 Special makes. By name of manufacturer
- 717 Ornithopters. Winged flight
- 718 Other
- Special uses of airplanes
- Civil aviation (Technology), see TL552
- 720 Transportation (Technology)  
     Economic aspects, see HE9761-9900
- 721 Special flights, A-Z  
     o. g. .B3 Balbo  
             .B5 Blériot  
             .B7 The Bremen  
             .C5 Chichester  
             .C6 Cobham  
             .C65 Costes  
             .E3 Earhart  
             .K5 Kingsford-Smith  
                 Lindbergh, see TL540.L5  
             .P6 Post and Gatty  
             .U6 U. S. Army world flight  
     Cf. TL539-540, Biography  
     Collected flights overseas, see TL53  
     Collected flights over an individual  
         TL521-529
- .1 Exploration. Mountain climbing  
     Special localities, see DS486.E8, TL521-
- (.2) Surveying and mapping, see TA593
- (.3) Aerial photography, see TR810
- .4 Private flying  
     Sport flying, see GV758
- .5 Air meets  
     Races, see GV759
- .6 Special meets, A-Z
- 722 Use of airplanes in various industries
- (.1) Agriculture, see S494.5.A3  
     Crop surveying, crop protection, dus
- .2 Fisheries and whaling
- (.3) Forestry, fire patrol, see SD387.A3
- .4 Mining. Prospecting
- .5 Use of airplanes for advertising  
     Flying exhibits, flying signboard, voi  
     Skywriting. Distribution of literat  
     Cf. HF6146.A4, Aircraft as a method of

Aeronautics. Aeronautical engineering

Special uses of airplanes - Continued

Use of airplanes for humanitarian purposes. Lif  
at sea

Cf. RA996.5, Aeronautics and medicine

TL553.8, Search and rescue

Government uses of airplanes

War, see UG630-635, VG90-95

Airmail, see HE6238, HE6496

Airplane industry (Technical aspects)

Including management

Cf. TL671.28, Manufacturing. Factory equipmen  
methode

General works

Trade directories, see TL512

Special companies, A-2

Airways (Routes). Airports and landing fields. A

Including air pilot guides

Cf. HF9797, Air transportation

UG630-635, Military aeronautics

VG90-95, Naval aeronautica

Periodicals, societies, etc.

General works

Specifications and contracts

Special topics, A-2

.A2 Access to airports

.A6 Areas, Danger

.B5 Bird control

.B8 Buildings

Cf. TL725.3.R4, Repair shops

.C3 Camouflage

.C6 Cold weather conditions

.C64 Control towers

.D35 Defense measures. War damage

.D4 Dispatching of airplanes

Cf. TL725.3.T7, Traffic control

.D7 Drainage

.E6 Equipment

Fog control, see TL557.F6

.G6 Government operation and support

.L2 Landing aids (General)

Cf. TL691.L3, Landing lights (Aircraft)

TL696.C75, Control tower display  
(Electronic)

TL696.L3, Landing aids (Electronic)

TL725.3.L5, Lighting (Airports)

TL725.3.T7, Air traffic control

.L3 Landing fees

.L5 Lighting

.L6 Location

.M2 Management

.M3 Marking

Meteorology, see TL556-558

.N6 Noise

.P3 Passenger accommodations

.P35 Pavements

.P5 Planning

.P7 Private aircraft

.R3 Radiation safety

.R4 Repair shops

.R8 Runways

Special topics, A-Z - Continued

.S5 Size

.S6 Soils

.T5 Time schedules etc., for making timetable  
Timetables themselves are classified  
HE9768 and HE9801-9900, subdivisions  
.A2A-Z and .A9-Z6

.T7 Traffic control

Cf. TL696.C75, Control tower display  
(Electronic)

TL696.R25, Radar air traffic control  
systems

War damage, see .D35

.Z6 Zoning

Holports

Special places, see TL726-726.9

Seaplane bases

Special places, see TL726-726.9

Floating airports

Special places, see TL726-726.9

Aircraft carriers

Special countries

General works

General special

e. g. Plymouth to Basra

Transpacific routes, etc.

United States

States, A-W

Cities, A-Z

Other countries

Under each:

.A1A-Z General works

.A2-Z Individual countries, A-Z

Each country may be subarranged

General works; .x2, Local,

.G4-42, Germany

America (except United States), A-Z

Europe, A-Z

Asia, A-Z

Africa, A-Z

Australia

New Zealand

Pacific islands

Beacons for aircraft

Cf. TL725.3.L5, Airport lighting

Radiobeacons, see TL696.B4

Hangars

General special

e. g. Fire hazards

For airships

For airplanes

Mooring masts

Launching machinery. Catapults, etc.

Apparatus for picking up and delivering goods, etc.  
during flight

- Parachutes  
 Historical and early works. Parachutes used  
 balloons for exhibition and other purposes  
 Sport parachuting, see GV770  
 750 General works  
 751 Special jumpers, A-Z  
 Modern parachutes  
 752 General works  
 753 General special  
 754 Special makes, A-Z  
 755 Personal narratives  
 758 Parachutes to carry airplanes

### Kites

- Sport and competitions, see GV769  
 759.A1A-Z Periodicals, societies, etc.  
 .A6-Z General works  
 .3 History  
 .5 Juvenile works  
 .6 Special types of kites, A-Z  
 e. g. .P3 Parakites  
 .7 Use of kites (General)  
 Cf. QC879, Meteorology  
 TR810, Photography from kites

### Gliders. Gliding and soaring

- Sport and racing, see GV764-766  
 760.A1A-Z Periodicals, societies, etc.  
 General works  
 .A2A-Z Early to 1903  
 .A3-Z 1903-  
 .5 Air meets  
 761 General special  
 762 Design and construction  
 765 Operation of gliders. Launching. Gliding.  
 766 Equipment  
 769 Aviators, etc. (Manpower airplanes)

### Models

- Experimental models prior to 1914, see TL6  
 Model testing, see TL671.7  
 770.A1A-Z Periodicals, societies, etc.  
 .A2-Z General works  
 Competitions, etc., see GV761  
 775 Model airships  
 777 Details and parts of models  
 e. g. Propellers

### ROCKET PROPULSION. ROCKETS

- 780 Periodicals, societies, etc.  
 .5 Dictionaries and encyclopedias  
 History  
 781 General works  
 .5 Special projects, A-Z  
 .8 By country, A-Z  
 .85 Biography  
 .A1A-Z Collective  
 .A3-Z Individual, A-Z  
 782 General works  
 .5 Popular works. Juvenile works  
 .55 Pictorial works

- .75 Amateurs' manuals, etc.
- .8 Addresses, essays, lectures
- Rocketry as a profession
- Model rockets, see TL8/4
- Special types of rockets and propulsion
- 3 Chemical rockets. Chemical propulsion syst
- .3 Solid propellant rockets
- .4 Liquid propellant rockets
- .5 Nuclear rockets. Nuclear propulsion system
- .54 Electric rockets. Electric propulsion syst
- .57 Photon rockets. Photon propulsion system
- .6 Plasma rockets. Plasma propulsion system
- .63 Ion rockets. Ion rocket propulsion
- .8 Hot water rockets. Hot water rocket propul
- 4 Special topics, A-Z
- .C6 Combustion
- .C63 Controls
- .C65 Cooling
- .E4 Electronics
- .E9 Expansion joints
- .F8 Fuel systems
- .L3 Launching
- .N65 Nozzles
- .P9 Pyrotechnics
- .S7 Stability
- .T4 Telemetry
- .3 Manufacturing. Factory methods
- .5 Special topics, A-Z
- .T4 Testing
- .W4 Welding
- .8 Materials
- 5 Fuel
- .8 Rockets for special uses, A-Z
- .L3 Launch vehicles
- .S6 Sounding rockets
- Cf. QC879, Meteorology
- Spacoships, see TL795

#### ASTRONAUTICS. SPACE TRAVEL

- 37 Periodicals, societies, etc.
- .5 Collected works (nonserial)
- .7 Abstracts
- 38 Dictionaries and encyclopedias
- .3 Directories
- .4 International cooperation
- History
- .5 General works
- .7 Imaginary voyages
- Unidentified flying objects. Flying saucers
- 39.A1A-Z Periodicals, societies, etc.
- .A2-Z General works
- .3 Personal narratives
- Including personal sightings

- 789.8 By country, region, etc., A-Z  
 Subarranged like TL796.5  
 e. g. .U6R3 Project Ranger  
 .U6S9 Project Surveyor  
 .U6X5 X-15 program
- .85 Biography  
 .A1A-Z Collective  
 .A3-Z Individual, A-Z
- 790 General works
- 791 Textbooks
- 793 Popular works. Juvenile works
- .5 Pictorial works
- .7 Anecdotes, facetiae, etc.
- 794 Handbooks, pocketbooks, tables, etc.
- .3 Laboratory manuals. Amateur experiments
- .5 Addresses, essays, lectures
- 795 Spaceships
- Artificial satellites  
 Cf. TL1080, Artificial satellite orbits
- 796.A1A-Z Periodicals, societies, etc.
- .A2-Z General works
- .5 By country, region, etc., A-Z  
 Prefer TL796.6 for individual planets  
 Subarranged like .U5-6, United States  
 e. g. United States  
 .U5 General works  
 .U6 Special projects or programs  
 e. g. .U6V3 Vanguard
- .6 By planet, etc., A-Z  
 e. g. .E2 Earth  
 .S8 Sun
- .8 Observers' handbooks
- 797 Space stations
- 798 Special types by use, A-Z  
 .G4 Geodetic satellites  
 Cf. QB343, Artificial satellites  
 .M4 Meteorological satellites  
 Cf. QC879.5, Meteorology  
 .N3 Navigation satellites  
 .S3 Scientific satellites  
 Cf. Q180.7, Astronautics in general
- 799 Flights to special planets, etc. By planet  
 Cf. QB601-701, Planets  
 e. g. .M3 Mars  
 .M6 Moon
- 844 Model rockets. Model space vehicles
- 845 Study and teaching  
 Cf. TL1085, Space flight training
- 846 United States
- 847 Special schools, A-Z
- 848 Other countries, A-Z
- 849 Problems, exercises, etc.
- 850 Astronautics as a profession
- 855 Qualifications for astronauts
- 856 Medical examinations  
 Including psychological tests  
 Cf. RC1050-1097, Aviation medicine

	Periodicals and societies, by language of publi
1. A1A-Z	International or polyglot
. A2-Z	English
2	French
3	German
4	Other languages (not A-Z)
5	Congresses
6	Exhibitions. Museums
	Subarranged like TA6
7	Collected works (nonserial)
9	Dictionaries and encyclopedias
10	Polyglot dictionaries
12	Directories
13	Yearbooks
	For special countries, <u>see</u> TW21-126
	History and description
15	General works
16	Ancient
17	Medieval
	Modern
18	To 1800
19	1800-
26	Special countries. Table I <sup>1</sup>
	Including government reports on mineral res
	economic geology
	Biography
39	Collective
40	Individual, A-Z
	<u>General works</u>
44	Early to 1800
45	1800-
46	Elementary works
47	Popular works
48	Juvenile works
51	Pocketbooks, tables, examinations, questions,
53	General special
	Taxation, <u>see</u> HJ5635.M6
55	Addresses, essays, lectures
60	Mining engineering as a profession
65	Study and teaching
71	America
73	United States
74	States, A-W
75	Cities, A-Z
76	Canada
77	Special provinces, A-Z
79	Latin America
80	Mexico
81	Special divisions, A-Z
82	Central America
83	Special countries, A-Z
85	West Indies
86	Special islands, A-Z
88	South America
89	Special countries, A-Z



- Europe
  - Special countries, A-Z
- Asia
  - Special countries, A-Z
- Africa
  - South Africa
    - Special countries, A-Z
- Australia
  - Special states, A-Z
- New Zealand
- Pacific islands
  - Special islands, A-Z
- Metallurgical research
- Special schools
  - United States. By name of school, A-Z
    - Correspondence schools
  - Other countries. By school, A-Z
- Mining laws and legislation
  - General works
  - America
    - United States
      - States, A-W
  - Canada
    - Special divisions, A-Z
  - Latin America
  - Mexico
    - Special divisions, A-Z
  - Central America
    - Special countries, A-Z
  - West Indies
    - Special islands, A-Z
  - South America
    - Special countries, A-Z
- Europe
  - Special countries, A-Z
- Asia
  - Special countries, A-Z
- Africa
  - South Africa
    - Special countries, A-Z
- Australia and New Zealand
  - Special colonies, A-Z
- Pacific islands
  - Special islands, A-Z
- Patents
- Economic or applied geology and mineralogy
  - Special countries, see TN21-126
- Mineral deposits. Metallic ore deposits
  - Special countries, see TN21-126
  - For metallic ore deposits of particular metals, see TN21-126
  - For nonmetallic mineral deposits of particular minerals, see TN800-948
- Metallic ores (General)
- Geophysical surveying

- 270.A1A-Z  
.A2-Z  
271 Periodicals, societies, congresses, etc.  
General works  
Special minerals, etc., A-Z  
.A2 Rare metals. Rare earths (General)  
.B4 Beryllium  
.B6 Boron  
.C5 Chromium  
.D5 Diamonds  
.F6 Fluorspar (Fluorite)  
.G6 Gold  
.G7 Graphite  
.I7 Iron  
.K2 Kaolin  
.L4 Lead  
.M3 Manganese  
.M4 Mercury  
.M5 Mica  
.N5 Nickel  
.P3 Pegmatites  
.P4 Petroleum  
.P9 Pyrites  
.Q4 Quartz  
Rare metals, rare earths, see .A2  
.T3 Tantalum  
.T5 Tin  
.T55 Titanium  
.T8 Tungsten  
.W7 Uranium
- 272 Mine examination and valuation. Mine selling  
273 Mine surveying. Mine maps  
Construction of mine structures, buildings, etc.  
274 Mine organization and management  
For the organization and management of special  
mines, see below under each type  
Practical mining operations
- 275.A1A-Z  
.A2-Z  
277 Periodicals, societies, etc.  
General works  
Excavating and quarrying  
278 Hydraulic mining  
279 Drilling and blasting  
Use of explosives in coal mines, see TN80.
- 281 Deep boring  
283 Shaft sinking  
285 Tunneling, drifting  
287 Stopping  
289 Timboring  
291 Open working  
292 General special  
o. g. Steel arches for mines, mine-roof
- 295 Safety measures  
Cf. HD7269.M6-61, Labor hygiene  
297 Rescue work, stations, first aid, etc.  
300 Mine sanitation  
301 Ventilation and lighting of mines  
303 Ventilating appliances and machines  
305 Gases in mines. Firedamp  
306 Gases resulting from use of explosives  
307 Miners' lamps. Safety lamps  
309 Electric lighting of mines

- Mine dusts
- Explosions
- Fires
- Falls of roof, etc.
- Flooding
- Subsidence due to mining
- Mine drainage
- Mine pumps
- Mine transportation, haulage and hoisting
  - Underground roads
  - Mechanical haulage
  - Mine railroads, tracks, etc.
  - Electric mine locomotives and their use
  - Gasoline engines
  - Hoists and elevators
    - Special apparatus. By place, A-Z
  - Surface transportation
  - Mine and ore cars
- Electrical engineering and equipment
  - Electric lighting of mines, see TN309
- Mine communication systems
- Mining machinery, tools, appliances, etc.
  - Coal mining machinery, see TN813-814
- Catalogs
- General mining and smelting companies
- Ore deposits and mining of particular metals
  - Including mining and smelting companies
  - For extraction of particular metals from their ores
  - TN703-799
- Iron ore deposits and mining
  - General works
  - General special
  - Individual ores, A-Z
    - Prefer classification by country
    - .H4 Hematite
    - .M3 Magnetite
    - .S5 Siderite
    - .T3 Taconite
  - Special countries
    - America
      - General works
      - United States (General)
        - States, A-W
        - Special companies
      - Other countries, A-Z<sup>1</sup>
    - Europe
      - General works
      - Special countries, A-Z<sup>1</sup>
    - Asia
      - General works
      - Special countries, A-Z<sup>1</sup>
    - Africa
      - General works
      - Special countries, A-Z<sup>1</sup>

Each country, island, etc. may be subdivided: .x, General work  
 Local, A-Z

	<u>Special countries - Continued</u>
	Australia, Oceania, etc.
08. A1 A-Z	General works
.A4-Z	Special states or islands, A-Z <sup>1</sup>
09	Companies outside of United States
	Special companies, United States, <u>see</u> TN
	<u>Gold and silver ore deposits and mining. Precious</u>
10	General works
11	General special
19	Special countries
	Divided like TN403-409
	e. g. 413.N2 Nevada
	.N25 Comstock Lode
	.N3 Sutro Tunnel
	<u>Gold ore deposits and mining</u>
20	General works
21	Hydraulic and placer mining
22	Other methods
	e. g. Gold dredging
29	Special countries
	Divided like TN403-409
	<u>Silver ore deposits and mining</u>
30	General works
31	General special
32	Individual ores, A-Z
	Prefer classification by country
	.57 Stephanite
39	Special countries
	Divided like TN403-409
	<u>Copper ore deposits and mining</u>
40	General works
41	General special
42	Individual ores, A-Z
	Prefer classification by country
	.65 Chalcopyrite
49	Special countries
	Divided like TN403-409
	<u>Lead ore deposits and mining</u>
50	General works
51	General special
52	Individual ores, A-Z
	Prefer classification by country
	.64 Cerussite
	.63 Galena
59	Special countries
	Divided like TN403-409
	<u>Mercury ore deposits and mining</u>
60	General works
61	General special
62	Individual ores, A-Z
	Prefer classification by country
	.65 Cinnabar
69	Special countries
	Divided like TN403-409

Each country, island, etc. may be subdivided: .x, General works  
2, Local, A-Z

470	General works
471	General special
472	Individual ores, A-Z
	Prefer classification by country
	.C3 Cassiterite
479	Special countries
	Divided like TN403-409
	<u>Zinc ore deposits and mining</u>
480	General works
481	General special
482	Individual ores, A-Z
	Prefer classification by country
	.S6 Sphalerite
489	Special countries
	Divided like TN403-409
490	Other metals, A-Z
	Class individual ores of particular metals
	.A2 Rare metals. Rare earths (General)
	.A3 Radioactive minerals
	.A5 Aluminum
	.A6 Antimony
	.A8 Arsenic
	.B2 Barium
	.B4 Beryllium
	.B6 Bismuth
	.C2 Cadmium
	.C4 Chromium
	.C6 Cobalt
	.I6 Indium
	.L5 Lithium
	.M2 Magnesium
	.M3 Manganese
	.M7 Molybdenum
	.N6 Nickel
	.N65 Niobium
	.P7 Platinum and platinum group
	.R3 Radium
	.S8 Strontium
	.T2 Tantalum
	.T5 Tellurium
	.T55 Thorium
	.T6 Titanium
	.T9 Tungsten (Wolfram)
	.U7 Uranium
	Cf. .A3, Radioactive minerals
	.V2 Vanadium
	.Z5 Zirconium
500	<u>Ore dressing and milling</u>
505	Milling machinery
	Cf. TJ1345, Mechanical engineering
507	Trade catalogs
510	Crushing. Rolls, stamps, breakers
515	Screening and sorting. Screens, classifiers
520	Concentrating. Jigs, tables, vanners
523	Flotation
525	Slime treatment
530	Magnetic separation
535	General special
	o. g. Dewatering

- Cf. HQ325-329, Money  
 550 General works  
 555 General special  
 560 Sampling of ores  
 Cf. TN272, Mine examination and valuation  
 565 Metallurgical analysis  
 570 Metallurgical and assay laboratories  
 571 Special laboratories  
 575 Assaying apparatus  
 580 Assaying of special substances, A-Z  
 .86 Gold and gold ores

## METALLURGY

Cf. TA459-492, Properties of metals  
 TN200-770, Metal manufactures

- 600 Periodicals, societies, etc.  
 605 Compresses  
 607 Collected works (nonserial)  
 609 Dictionaries and encyclopedias  
 612 Directories  
 History  
 615 General works  
 616 Ancient  
 617 Medieval  
 618 Modern  
 619 19th century  
 620 20th century  
 621-655 Special countries  
 Divided like TN221-255  
 General works  
 664 Early to 1800  
 665 1800-  
 667 Popular works. Juvenile works  
 669 Laboratory manuals  
 671 Pocketbooks, tables, etc.  
 672 Heat treatment of metals  
 673 General special  
 675 Addresses, essays, lectures  
 .3 Study and teaching  
 .5 Metallurgical plants  
 .7 Management  
 676 Accidents and their prevention. Safety measures  
 Cf. HD7269.86-7, Labor hygiene  
 .A1A-Z General works  
 .A3A-Z United States  
 .A5-Z Other countries, A-Z  
 Special equipment  
 677 Metallurgical furnaces  
 .5 Refractory materials  
Electrometallurgy  
 For applications to special metals, see  
 e. g. TN706, Iron and steel  
 Cf. TS670-693, Electroplating  
 681 Periodicals, societies, etc.  
 685 General works  
 686 General special

- 686.5 Electrometallurgy - Continued  
 Special processes, A-Z  
 .L4 Elektroslag process  
 .V3 Vacuum metallurgy  
 .Z6 Zone melting  
 Cf. TP156.Z6, Chemical engineering
- 687 Special equipment  
 e. g. Electric furnaces
- 688 Hydrometallurgy
- 690 Metallography. Physical metallurgy  
 General works  
 Cf. TA489-486, General properties of all  
 TS650, Manufacture of alloys
- 693 Special metals, A-Z  
 Including alloys  
 .A5 Aluminum  
 .B4 Beryllium  
 .C5 Chromium  
 .C9 Copper (Bronze)  
 .H4 Heat resistant metals  
 .I7 Iron and steel  
 .M3 Magnesium  
 .B5 Nickel  
 .N6 Nonferrous metals  
 .P3 Palladium  
 .R3 Rare earth metal alloys  
 .S5 Silver  
 .S9 Superconductors  
 .T45 Thorium  
 .T5 Titanium  
 .T7 Transition metal compounds  
 Including refractory transition  
 .U7 Uranium  
 .V3 Vanadium
- 695 Powder metallurgy  
 Cf. TS245, Manufactures
- 700 Metallurgy of heat-resistant alloys  
Metallurgy of ferrous metals  
Iron and steel  
 Cf. TA464-479, Properties  
 TS300-380, Manufactures  
 Periodicals and societies, see TS300  
 Directories, see TS301  
 History  
 Special countries, A-Z  
 General works  
 Electric processes  
 General special  
 o. g. Slag  
 Patents  
 Cast iron. Pig iron  
 Blast furnaces  
 Hot blast. Dry-air blast  
 Cf. TS231, Cupola furnaces  
 Utilization of waste heat, gas, etc.  
 Malleable cast iron  
 Wrought iron  
 Direct processes  
 Refinery processes. Puddling and puddling

Iron and steel - Continued

Steel

General works

General special

a. g. Temperature measurements

Popular works. Juvenile works

Special processes

Direct processes

Concentration processes

Crucible process

Bessemer process

Acid Bessemer process

Basic Bessemer process

Open hearth or Siemens process

Acid open hearth process

Basic open hearth process

Electric furnace processes

Oxygen steelmaking

Other processes. Continuous ingot casting

Heat treatment

General works

Special processes, A-Z

.A5 Annealing

.C3 Case hardening

.C5 Chromizing

.I5 Induction hardening

.Q4 Quenching

.S8 Surface hardening

.T4 Tempering

Special plants and works, A-Z

Iron and steel alloys

Production only

For properties, strength, etc., see TN446

For microscopic examination, etc., see TN447

General works

Special alloys, A-Z

.C5 Chrome steel. Stainless steel

.F25 Ferrochromium

.F3 Ferromanganese

.F4 Ferrosilicon

.M3 Manganese steel

.M7 Molybdenum steel

.N5 Nickel steel

.S7 Spiegel iron

.T9 Tungsten steel

Metallurgy of nonferrous metals

Individual plants and works, A-Z

Precious metals

Gold and silver

General works

General special

Milling

Special processes

Amalgamation

Chlorination

Cyanide process

Electric processes

Other special processes

Silver and lead

For lead alone, see TN785



773	Light metals
775	Aluminum and its alloys
780	Copper
785	Lead
790	Mercury
793	Tin
796	Zinc
	Minor metals
798	Collectively
799	Special metals, A-Z
	.A6 Antimony
	.B4 Beryllium
	.C2 Cadmium
	.C4 Cesium
	.G5 Chromium
	.C6 Cobalt
	.G3 Gallium
	.M2 Magnesium
	.M3 Manganese
	.M7 Molybdenum
	.N6 Nickel
	.N7 Niobium
	.P7 Platinum
	.P7. Plutonium
	.R4.5 Rhodium
	.R5 Rhodium
	Selenium, <u>see</u> TN948.84
	.T3 Tantalum
	.T4 Thorium
	.T5 Titanium
	.T9 Tungsten
	.U7 Uranium
	.V3 Vanadium
	.Z5 Zirconium

### NONMETALLIC MINERALS

Including deposits and associated  
mining industries

799.5	General works
	<u>Coal</u>
800	General works
801	Elementary and popular works
	Mines and mining
	Practical mining operations, ventilation are classified with general mining, TN measures, <u>see</u> TN295
802	General works
803	General special
	o. g. Use of explosives
	Special countries
	America
805.A1A-Z	General works
.A2A-Z	Monographs. By author, A-Z
	United States
	General works
.A3-39	Documents

Mines and mining  
Special countries  
American

United States

General works - Continued

805. A4A-Z

Directories

.A5A-Z

Monographs. By author, A-Z

.A6-W

Special states, A-W

.Z6A-Z

Special companies

806

Other countries, A-Z<sup>1</sup>

807

American companies outside of United

Europe

808. A1A-Z

General works

.A4-Z5

Special countries, A-Z<sup>1</sup>

.Z6A-Z

Special companies

Asia

809. A1A-Z

General works

.A4-Z5

Special countries, A-Z<sup>1</sup>

.Z6A-Z

Special companies

Africa

810. A1A-Z

General works

.A4-Z5

Special countries, A-Z<sup>1</sup>

.Z6A-Z

Special companies

Australia, Oceania, etc.

811. A1A-Z

General works

.A2A-Z

Monographs. By author, A-Z

.A4-Z5

Special countries, A-Z<sup>1</sup>

.Z6A-Z

Special companies

812

Arctic and Antarctic Regions

Including Spitzbergen, Bear Island,

813

Coal mining machinery

814

Catalogs

815

Coal handling machinery for colliery purposes

For machinery for handling coal commercially

Coal preparation, washing, screening, etc.

816. A1A-Z

Periodicals, societies, etc.

.A3-Z

General works

817

Coal storage, weathering, etc.

Underground gasification, see TP759

820

Anthracite

823

Special countries, A-Z

825

Bituminous coal

Special countries, see TN805-812

827

Cannel coal

831

Lignite. Brown coal

834

Special countries, A-Z

Peat

837

General works

840

Special countries, A-Z

842

Peat straw, peat mull, etc.

Other natural carbons and hydrocarbons

- 45 Graphite  
47 Schungite  
50 bitumen  
51 Sapropel  
53 Asphalt  
Including uses  
57 Ozokerite, ceresin, natural paraffin  
Cf. TP695, Chemical technology  
Oil shales  
Cf. TP699, Chemical technology  
58. A1 A-Z Periodicals, societies, etc.  
. A2-Z General works  
59 Special countries, A-Z  
Petroleum. Petroleum engineering  
Cf. UD9560-9579, Petroleum trade  
TP690-692, Refining, etc.  
60 Periodicals, societies, etc.  
62 Yearbooks  
63 Congresses  
64 Collected works (nonserial)  
65 Dictionaries and encyclopedias  
67 Directories  
70 General works  
.5 Origin, composition, analyses, etc.  
71 General special  
e. g. Testing, storage, diffusion, etc.  
.2 Well drilling  
.3 Submarine well drilling  
.35 Well logging  
.5 Petroleum and gas well supplies  
Including catalogs  
Special countries  
America  
72. A2A-Z General works  
By country  
United States  
. A3-34 Periodicals, societies, congresses, etc.  
Documents  
. A35-44 Serials  
. A45 Monographs. By date  
Directories, see TN867  
. A5A-Z General works  
. A6-W By state  
.76A-Z Special companies  
73 Other countries, A-Z<sup>1</sup>  
Europe  
74. A1A-Z General works  
. A4-Z Special countries, A-Z<sup>1</sup>  
75 Caspian, Baku, etc.  
Asia  
76. A1 A-Z General works  
. A4-Z Special countries, A-Z<sup>1</sup>

<sup>1</sup>  
Each country, island, etc. may be subdivided: .x, General works  
.x2, Local, A-Z

Petroleum. Petroleum engineering

Special countries - Continued

Africa

General works

Special countries, A-Z<sup>1</sup>

Australia, Oceania, etc.

General works

Documents

Monographs. By author, A-Z

Special states or islands, A-Z<sup>1</sup>

Oil companies outside of United States

Petroleum pipelines

Natural gas

Periodicals, societies, etc.

General works

Gas well drilling

Natural gas pipelines

United States

General works

Special states, A-Z<sup>1</sup>

Other countries, A-Z<sup>1</sup>

Helium in natural gas

Amber, fossil gums, etc.

Sulphur

Alkalies

Cf. TN919, Potassium salts

TP201, 222-223, Chemical technology

General works

United States

General works

Special states, A-W

Other countries, A-Z

Sodium salts. Soda deposits

Salt

Mining and manufacture

General works

By country

United States

General works

By state, A-W

Other regions, countries, etc., A-Z<sup>1</sup>

Manufacture

Sea water

Saline springs

Company prospectuses, etc.

Sodium sulphate, see TN948.57

Nitrates. Chile saltpeter

Cf. TP237-238, Chemical technology

Phosphates

Special countries, A-Z<sup>1</sup>

Borax and other borates

Potassium salts. Potash-bearing rocks and plants

Kelp

Cf. TP245.P8, Chemical technology

Mineral Waters

Cf. G31198, Hot springs

RA791-954, Health resorts, spas, etc.

TP625, Artificial mineral waters

General works

United States

Special states, A-W

Other American, A-Z

Under each country:

.x General works

.x2 Local, A-Z

Europe<sup>1</sup>

Other regions or countries

Asia<sup>1</sup>

Africa<sup>1</sup>

Australia

.A1 A-Z General works

.A3-Z Local, A-Z

New Zealand

Divided like NK929.5

Pacific Islands<sup>1</sup>

Asbestos

Mica

Abrasives. Emery, corundum, etc.

Sand and gravel

Clay

Cf. TP785-842, Ceramic industries

General works

United States

Other countries, A-Z

Structural materials in general, see TN950-956

Cement materials

Gypsum

Cf. TP888, Plaster and other gypsum products

Other specific nonmetallic minerals, A-Z

Including minerals from which metals are not normally extracted

.A5 Allanite

.A65 Anhydrite

.A7 Apatite

.B18 Barite

.B4 Bontonite

.B45 Beryl

.C3 Carbonatite

.C34 Carnallite

.C5 Chalk. Whiting

.C75 Cordierite

(.C8) Corundum, see TN936

.D5 Diatomaceous earth

.F3 Feldspar

.F45 Fillers

may be divided

A-Z General works

B-Z By country, island, region

Under each country:

.x General works

.x2 Local, A-Z

- .F5 Flint
- .F6 Fluorspar
- .F9 Fullers' earth
- Garnet, see TN997.53
- .L46 Lime
- .M2 Magnesite
- .M3 Marl
- .M5 Meerschaum
- .M7 Monazite
- .M8 Mullite
- .M85 Muscovite
- .M37 Nepheline syenite
- .M4 Nephelite (Nepheline)
- .O2 Ocher
- .P25 Palygorskite
- .P4 Perlite
- .P8 Pyrite
- .Q3 Quartz
- .S4 Selenium
- .S5 Shale
- see TN858-859, Oil shales
- .S6 Silica
- .S7 Sodium sulphate
- .S9 Syenite
- .T2 Tale and soapstone
- .T9 Tysonite
- Whiting, see .G5
- .W6 Wollastonite

#### BUILDING AND ORNAMENTAL STONES

- .TA426-428, General properties, testing, etc.
- .TA672-676, Stonemasonry and stonocutting

Periodicals, societies, etc.

General works

Special countries

America

    General works

    United States

        Special states

    Other American countries, A-Z

Europe

    General works

    Special countries, A-Z

Asia

    Divided like TE953

Africa

    Divided like TE953

Australia. Oceania

    Divided like TE953

Special stones

    Sandstone

    Slate

    Soapstone, see TN948.T2

    Limestone. Marble

    Granite

    Other building stones

    Stones for roadmaking, see TE200

Section 22. Precious stones

- Special countries
  - America
    - General works
    - United States
    - Special states
    - Other American countries, A-Z
  - Europe
    - General works
    - Special countries, A-Z
  - Asia
    - Divided like TN983
  - Africa
    - Divided like TN983
  - Australia. Oceania
    - Divided like TN983
- Special ornamental stones (other than gems), A-Z
  - .A3 Alabaster
- Diamonds
  - South Africa
  - Company reports, etc.
  - United States
  - Other special countries, A-Z
- Other precious and semiprecious stones, A-Z
  - .G3 Garnets
  - .J3 Jade
  - .O7 Opals

Periodicals, societies, etc.

Congresses

Exhibitions. Museums

Subarranged like TA6

Collected works (nonserial)

Dictionaries and encyclopedias

Directories

History

General works

Ancient

Medieval

Modern

Nineteenth century

Twentieth century

Country divisions. Table I<sup>1</sup>

Special companies, A-Z

History, description, etc.

Biography

Collective

Individual, A-Z

General works

Early to 1900

1900-

Elementary works

Popular works

Addresses, essays, lectures, see TP185

General special

o. p. Municipal chemistry, safety measures, etc.

Tables, pocketbooks, etc.

Rf. T49, Technical receipts

Chemical engineering

Chemical engineering aspects of atomic power, see TK9

General works

Chemical plants

Management

Chemical processes

Special processes and operations, A-Z

.A3 Absorption of gases

.A35 Adsorption

.B7 Briquetting

.C3 Carbonization

.C35 Catalysis

.C5 Chromatography

.C6 Condensation

Cooling, see TP363

.C7 Crystallization

Dehydration, see TP363

.D4 Dehydrogenation

.D45 Dialysis

.D47 Diffusion

.D5 Distillation

(.D7) Drying, see TP363

.E5 Electrostatic separation

.E6 Emulsion



- .E65 Equilibrium
- .E68 Etching
- (.F7) Evaporation, see TP363
- .E8 Extraction
- .F4 Fermentation, Industrial
- .F5 Filtration
- .F6 Flow of liquids
- .F65 Fluidization
- .G7 Grinding
- Heating, see TP363
- .H78 Hydrogen-ion concentration
- .H8 Hydrogenation
- .H82 Hydrolysis
- .H85 Hydroxylation
- .I6 Ion exchange
- .I7 Isotope separation
- .M3 Mass transfer
- .M5 Mixing
- .N5 Nitration
- .N8 Nucleation
- .O7 Osmosis
- .O9 Oxidation
- .P3 Particle technology
- .P5 Plasma
- .P6 Polymerization
- .P7 Precipitation
- .P75 Pressure processes
- .P8 Pumping
- .R35 Rectification
- .R38 Recycle processes
- .R4 Reduction
- .R45 Rheology
- .S3 Screening
- .S32 Scrubber process
- .S4 Sedimentation
- .S45 Separation
- .S55 Solidification
- .S6 Spraying
- .S8 Sterilization
- .V3 Vacuum technology
- .W4 Weighing and measuring
- .W45 Wetting
- .Z6 Zone melting

#### Apparatus and supplies

Trade catalogs

Special, A-Z

- .A9 Autoclaves
- .C3 Catalysts
- .C4 Centrifuges
- .C6 Cooling towers
- .D4 Densimeters
- .D5 Distillation apparatus
- .E4 Electrolytic cells
- .E9 Extractors
- .F4 Feeders
- .O9 Oxidizing agents
- .P3 Packed towers
- .P57 Plasma jets
- .P6 Plate towers
- Pressure vessels, see TS283

- Special, A-Z - continued
- .36 Norsonits
- .37 Steam-jacketed pans
- .38 Steaming apparatus
- Laboratory manuals
- Study and teaching
- General works
- Problems, exercises, etc.
- Country divisions
- America
  - United States
    - By state, A-W
  - Canada
  - Latin America. West Indies
  - South America
- Europe
- Asia
- Africa
- Australia
- New Zealand
- Pacific islands
- Special schools
- United States
- Other countries, A-Z
- Addresses, essays, lectures
- Chemical engineering as a profession
- Government and industrial laboratories, etc.
- General works
  - Organization, etc.
- Special countries
- United States
- Canada. British America
- Other American countries, A-Z
- Europe
  - General works
  - By country, A-Z
- Asia<sup>1</sup>
- Africa<sup>1</sup>
- Australia
- New Zealand
- Pacific islands
- Chemicals
  - Manufacture, use, etc.
  - General works
  - General special
  - Catalogs, price lists, etc.
    - Cf. TK9401, Radioisotopes
  - Directories, see TP12
  - Patents
  - Special inorganic chemicals
    - Acids
      - General works
      - Sulphuric acid
      - Other acids, A-Z
        - Organic acids, see TP248
      - .C5 Chromic
      - .H8 Hydrochloric

# Special inorganic chemicals

## Acids

Other acids, A-Z - Continued

.H9 Hydrocyanic

.N5 Nitric

.P4 Perchloric

.P5 Phosphoric

## Alkalies

Cf. TH895-897, Mineral industries

General works

Ammonia and its compounds

Other special, see TP245

## Salts

General works

Chlorides

Nitrates

Sultpeter. Niter

Sulphates and sulphites

## Gases

General works

Compressed and liquefied gases

Including cylinders

Special gases, A-Z

Cf. TF751-762, Gas industry

.A3 Aerosols

.C1 Carbonic acid

.H3 Rare gases

Other inorganic chemicals. by principal elements, A-Z

Here are classed commercial products only. For pure chemistry, see QD181

.A4 Aluminum

.G5 Germanium

.A6 Antimony

.G6 Gold

.A7 Argon

.H4 Helium

.A8 Arsenic

.H9 Hydrogen

.B2 Barium

.I5 Indium

.B4 Beryllium

.I6 Iodine

.B5 Bismuth

.I7 Iridium

.B6 Boron

.I8 Iron

.B7 Bromine

.K6 Krypton

.C2 Cadmium

.L2 Lanthanum

.C25 Caesium

.L4 Lead

.C3 Calcium

.L5 Lithium

.C4 Carbon

.M2 Magnesium

.C45 Cerium

.M3 Manganese

.C5 Chlorine

.M5 Mercury

.C6 Chromium

.M7 Molybdenum

.C7 Cobalt

.N4 Neodymium

.C8 Copper

.N5 Neon

.E6 Erbium

.N6 Nickel

.F6 Fluorine

.N7 Niobium

.G2 Gadolinium

.N8 Nitrogen

.G4 Gallium

Special inorganic chemicals

Other inorganic chemicals. By principal elements, A-Z

.07	Osmium	.T2	Tantalum
.09	Oxygen. Ozone	.T3	Tellurium
		.T4	Terbium
.11	Palladium	.T5	Thallium
.15	Phosphorus	.T6	Thorium
.17	Platinum	.T7	Thulium
.18	Potassium	.T8	Tin
.19	Praseodymium	.T85	Titanium
.195	Protoactinium	.T9	Tungsten
.22	Radium	.U.	Uranium
.22	Ramarium	.V2	Vanadium
.23	Scandium	.V5	Victorium
.24	Selenium		
.25	Silicon	.X4	Xenon
	Silicones, <u>300</u>		
	TP248.35	.Y8	Ytterbium
.26	Silver	.Y9	Yttrium
.27	Sodium		
.28	Strontium	.Z7	Zinc
.29	Sulphur	.Z8	Zirconium

Organic chemicals and preparations

Periodicals, societies, etc.

General works

Acids

Solvents

Plasticizers

Special, A-Z

.A2 Acetone

.A4 Acrylic acid

.A5 Alcohols

Cf. TP593-594, Fermentation industries

.A53 Aldehydes. Ketones

.A7 Aromatic compounds

.A8 Ascorbic acid

.A9 Aziridines

.B4 Benzene

.B5 Benzoic acid

.B8 Butanone

.B87 Butylene

.C2 Camphor

.C3 Carboic acid

.C4 Casein

.C5 Chloroform

.C6 Citric acid

.C67 Cresols

.C7 Cresylic acid

.C9 Cyanides

.C93 Cyanocobalamine

.D5 Diolefins

.E5 Enzymes

.E65 Ether

.E68 Ethylcellulose

.E72 Ethylene

.F5 Fluoro-organic compounds

.G6 Glucosides

.G65 Glutamic acid

## Special, A-Z

- Glycerine, see TP973
- .H3 Halogens
- .H85 Hydrazine
- .H9 Hydrocarbons
  - Cf. TP290.H9, Inflammable mat
- Ketones, see .A53
- .L27 Lactams
- .L3 Lactic acid
- .M4 Menthel
- .M45 Metallo-organic compounds
- .N7 Nitrocellulose
- .N8 Nitrogen compounds
- .N9 Nucleotides
- .O9 Oxalic acid
- .P4 Pectin
- .P46 Peroxides
- .P47 Pesticides
- .P5 Phenol products
- .P55 Phosphatides
- .P6 Phthalic acid
- .P62 Phthalocyanins
- .P65 Picric acid
- .P67 Polymethylbenzoxones
- .P75 Propylene
- .P8 Pyridine
- .S3 Saccharin
- .S5 Silicones
- .S8 Stearic acid
- .S9 Sugar esters
- .T27 Tartaric acid
- .T55 Tocophorol
- .T6 Toluene
- .U7 Urca
- (.W6) Wood alcohol, see TP594
- .X9 Xyloles
- .X95 Xylose

Industrial radiochemistryIndustrial photochemistryIndustrial electrochemistry

Cf. TK4661, Electric furnaces

QJ115, 273, 552-585, Chemistry

- 250 Periodicals, societies, etc.
- 251 Directories
- 252 History
- 253 Special countries, A-Z
- 255 General works
- 256 General special
- 257 Addresses, essays, lectures
- 258 Study and teaching
- Special applications
  - 259 Electrolysis of water
  - 261 Other special, A-Z
    - .A1 Alloys
    - .B7 Brine
    - .C3 Carborandum
    - .C5 Chlorates
    - .G7 Graphite
    - .N7 Nitrogen
    - .O9 Oxygen

Special applications  
 Gilder special, A-Z - Continued  
 Gelatin curdles, see T1770  
 Electroplating, see T8770-699  
 Electrotyping, see Z255  
 Metallurgical processes (General), see T1041-427  
Water in chemical industry  
 Water softening  
     Cf. T1466, Industrial water supply  
     T1772, Feedwater purification  
Chemistry of fire and fire prevention  
     Cf. C9516, Heat of formation, combustion, flame, explosion  
Fireproofing of structures  
Explosives and pyrotechnics  
History  
     Special topics, see T1272-34  
Biography  
     Cf. C17, Nobel  
Early works (to 1800)  
     Special topics, see T1272-34  
Explosives  
     Including military explosives  
     Fertilizers, societies, etc.  
     General works  
     Popular works. Juvenile works  
     Study, testing, etc.  
     Special explosives  
         Gun powder  
         Smokeless powder  
         Nitrocellulose compounds. Canebrake  
         Nitroglycerine compounds. Dynamite  
         Other, A-Z  
             .47 Robidnite  
             .67 Compensating powder  
             .68 Cordite  
             .119 Hydrocarbons  
                 Cf. T1248.119, Organic preparations  
             .15 Liquid air or oxygen  
             .18 Lyddite. Molanite  
             .15 Peroxides  
             .78 Trinitrotoluene (TNT)  
             .15 Vigorit  
     Fuses, caps, fulminates, etc.  
     Storage and handling. Magazines. Throw houses  
     Regulation, inspection, etc. by country, A-Z  
     Laws relating to explosives  
Pyrotechnics  
     Catalogs of fireworks, etc.  
Matches  
Fuel  
     Cf. T177400-7413, Heating of buildings  
     Periodicals, societies, congresses, etc.  
     Dictionaries and encyclopedias  
     Special countries, A-Z  
     General works  
     General special  
         a. g. Fuel for motor transport  
             Cf. TP343-359, Liquid and gaseous fuel  
     Minor works, pamphlets, etc.  
     Tables, calculations, etc.

321	Analysis. Testing
322	Fuel testing plants
323	Briquets and briquetting (General)
	Special with subject, e. g. TP327, 340,
324	Wood
325	Coal
326	Special localities, A-Z
327	Coal briquets
328	Pulverized coal
329	Lignite
331	Charcoal
336	Coke. Carbonization of coal
340	Peat
343	<u>Liquid and gaseous fuel</u>
	Cf. TR704.7, Fuel for aircraft engines
	TF692.2, Gasoline
	Gas
345.A1A-Z	Periodicals, societies, congresses, etc.
.A2-Z	General works
350	Natural gas
355	Petroleum
	Including synthetic petroleum
358	Alcohol and alcohol mixtures
359	Other special, A-Z
	.B4 Benzene (Cinnol)
360	Other
	e. g. Colloidal fuel, mud fuel, artificial
361	<u>Inflammable liquids and gases</u>
	Production, storage, handling and transport
	Cf. TP446.15, Fire prevention
362	Antifreeze solutions
363	Heating, drying, cooling, evaporating
365	Byproducts of combustion
	<u>Food processing and manufacture</u>
	Cf. TS1950-1981, Animal products
	TS2120-2159, Cereals and flour. Mill
	TX501-560, Analysis and composition of
368	Periodicals, societies, congresses, etc.
370	General works
371	Chemurgy
	Cf. S583-587.5, Agricultural chemistry
372	Special countries, A-Z
373	Food industries: equipment, catalogs, direct
	etc.
374	Special, A-Z
	.C6 Corn products
	.G8 Gums
	.P7 Proteins
	.S6 Soybean
	.V5 Vitamins
	<u>Sugar manufacturing and refining</u>
375	Periodicals, societies, congresses
.3	Yearbooks
.4	Dictionaries and encyclo
.5	Directories
.7	History
	General works
376	Early to 1800
377	1800-
378	Special methods, etc.
379	Special countries, A-Z
380	General special
	e. g. Byproducts

- 381 Tables, calculations, etc.
- 382 Analysis. Testing. Saccharimetry
- Root sugar
  - Periodicals, societies, etc., see TP375
- 390 General works
- 391 General special
- 393 Date sugar
- 405 Sorghum and maize sugars
- 407 Sugar-making machinery, etc.
- 413 Molasses and syrups
- 414 Glucose. Grape sugar, starch sugar, dextrose
- 415 Starch
- 417 Dextrine
- 419 Peanut butter
- 429 Tapioca. Sago. Cassava
- 445 Vinegar
- Flavoring extracts
  - General works
  - Special, A-Z
- 460 Yeast. Compressed yeast
- 465 Baking powder
  - Cf. HD9339.B2, Grocery industry
  - TX409, Nutrition
- Artificial butter, oleomargarine, etc., see
  - Cf. HD444, Oleomargarine trade
- Spices and condiments, see TX406-407
- Low-temperature engineering. Cryogenic engineering
  - Cf. TP243, Compressed and liquefied gases
  - TP363, Heating, drying, cooling, evaporation
- 480 Periodicals, societies, congresses, etc.
- 482 General works
- Refrigeration and ice-making
  - Periodicals, societies, congresses, etc.
- 490 Directories
  - General works
    - Early to 1850
    - 1850-
- .5 Theory. Thermodynamics
- .6 Domestic refrigeration
  - Cf. TP496, Refrigerators
- .7 Miscellaneous special topics
- .8 Dry ice
- .9 Thermoelectric cooling
  - Cf. QC621, Thermoelectricity. Thomson effect
- Cold storage
  - General works
  - Directories
- 493 Freezing of food. Frozen food
  - Cf. TX610, Home methods
- History
  - General works
  - Special countries, A-Z
- 495 Special machinery
  - Including catalogs
- 496 Refrigerators
  - Electric, gas, etc.
- 497
  - Periodicals, societies, etc.
  - General works
- .A1A-Z
  - Periodicals, societies, etc.
- .A2-Z
  - General works





Cf. M15360, Commercial icehouses

NA8350, Private icehouses

Fermentation industries. Beverages. Alcohol

Cf. HD9350-9398, Economics

Periodicals, societies, etc.

Directories

Congresses

Exhibitions

Subarranged like TA6

Dictionaries and encyclopedias

General works

Early to 1800

1800-

General special

Popular works

Handbooks, tables, etc.

Analysis. Testing

Use of the microscope

Cf. QR151-155, Micro-organisms of fermentation

Apparatus, instruments, tools, etc.

History

Cf. TP548-559, Wines

TP573, Brewing

General works

Ancient

Medieval

Modern

America

United States

Special states, A-W

Canada

West Indies

Mexico and Central America

South America

Europe, A-Z

Asia, A-Z

Africa, A-Z

Australia

New Zealand

Pacific islands

Study and teaching

Special schools

Cf. TP574, Brewing and malting schools

Wine and winemaking

Judaism, see RM523.5.W5

Periodicals, societies, congresses, etc.

Dictionaries and encyclopedias

Directories

Biography

Collective

Individual, A-Z

General works

Amateur's manuals

Special topics, A-Z

.A5 Analysis, testing, etc.

.A6 Apparatus and supplies

.B9 Byproducts

Microbiology, see QR151

.P7 Preservatives

Wine and winemaking - Continued

- History
- Special countries
  - France
    - Champagne
  - United States
  - Other regions and countries, A-Z
- Unfermented grapejuice. Must
- Fruit wines. Flower wines
- Fruit juices
  - cf. T1636, Syrups
- Cider

- Unfermented applejuice

Bumbers

Brewing and malting

- cf. TE2531, Brewery design and construction
- General works
  - Early to 1800
  - 1800-
- Directories
- History
  - General works
  - Special countries, A-Z
- Biography
  - .A1A-Z Collective
  - .A2-Z Individual, A-Z
- Biobols
- General special
  - Beer, Beer and ale
  - Ale, Porter
  - Pils Beer. Pilsé
- Yeast in brewing
  - Pure-culture yeast
- Water in brewing
- Hops in brewing
- Malting and malt

Other fermented beverages, A-Z

- .M4 Mond

Distilling

- General works
  - Early to 1800
  - 1800-
- Biography
  - Collective
  - Individual, A-Z
- General special
  - e. g. Fermentation of molasses
- Alcohol (Ethanol)
  - Including denatured alcohol
  - cf. HD9399, Economics
- Wood alcohol (Methanol)
- Distilled liquors
  - cf. HD9390-9395, Economics
- General works
- Brandy
- Whiskey
- Others, A-Z
  - .G4 Gin
  - .R9 Rum

Distilling - Continued

Gaging and testing

Including tables

Cf. HD9350.8, Taxation

HF5716.13-5, Gaging of liquids in general

Liqueurs. Cordials

Compounding. Liquor-makers' receipts

Catalogs of liquors

Adulteration of liquors, see TX577

Nonalcoholic beverages

General works

Artificial mineral waters

Carbonated beverages. Soda water

Periodicals, societies, etc.

Directories

General works

Apparatus. Soda fountains

Including catalogs

Syrups

Chocolate, coffee, tea, etc.

Cf. TX583-595, Adulterations

Cacao. Chocolate. Cocoa

Coffee

Cf. TD888.C6, Air pollution by coffee processing

Tea

Others, A-Z

Congelation of beverages

Bottling. Bottlers' machinery and supplies

Including labeling

Oils, fats, and waxes

Cf. TJ1077, lubricants

Analysis, testing, etc.

Bleaching of oils, fats, waxes, etc.

Sulphonated oils

Animal fats, oils, etc.

Cf. TS1980, Lard, tallow, fish oils, etc.

Insect waxes

Beeswax

Other waxes, A-Z

.C8 Myrcene wax

Vegetable oils and fats

General works

Cottonseed oil

Tables, etc.

Linseed oil

Olive oil

Other special oils and fats, A-Z

.C2 Cacao butter. Cocoa butter

.C275 Cashew oil

.C3 Castor oil

.C7 Coconut oil

.C8 Corn oil

.I8 Isano oil

.O7 Orange oil

.R5 Rice oil

.R7 Rosin oil

.T8 Tung oil. Chinese wood oil

Mineral oils and waxes

Reclamation of oil

Mineral oils and waxes

Petroleum refining, petroleum products

Cf. TD888.P4, Air pollution by petroleum re

TN860-870, Petroleum extraction

0.A1A-Z

Periodicals, societies, etc.

.A2-Z

General works

Directories of the industry, see TN867

.1

History

.2

by country, A-Z

.3

Refineries, refinery equipment, automatic con

Cf. TH4571, Construction of refineries

.4

Cracking process

.45

Other special processes (not A-Z)

e. g. Alkylation, hydrogenation, etc.

.5

Patents

.6

Safety measures and equipment

Cf. TH445.P4, Fire prevention and exting

petroleum refineries

.8

General special

e. g. Corrosion

01

Oil inspection, analysis, testing, standards,

02

Tables

.2

Gasoline

.4

Other special products, A-Z

.A8 Asphalts

.B5 Bitumen

.C6 Coke

.H9 Hydrocarbons

.K4 Kerosene

.M3 Mazut

.N3 Naphtha

.O3 Oil gas

.P3 Paraffins

.5

Oil and gasoline handling and storage

03

Paraffin

05

Ozokerite, ceresin, etc. Natural paraffin

Cf. TN857, Mineral resources, mining, etc.

08

Synthetic petroleum and its products

09

Shale oil and its products

Cf. TN858-859, Mineral industries

Illuminating industries (Nonelectric)

Cf. HD4486-4495, Municipal industries - lighting

TH7700-7975, Domestic illumination

TK4125-4390, Electric lighting

00

Periodicals, societies, etc.

02

Exhibitions

Subarranged like TA6

03

Congresses

05

General works

10

Tables, pocketbooks, etc.

13

General special

14

Directories

Lighting fixtures, see TH7960-7970

History

15

General works

16

Ancient

17

Medieval

18

Modern

19

Nineteenth century

20

Twentieth century

Special countries

Including regulation, inspection, etc.

America

North America

United States

States, A-W

Cities, A-Z

Canada

General works

Special provinces, A-Y

Cities, A-Z

Mexico

General works

Special states, A-Z

West Indies

General works

Special islands, A-Z

South America

Special countries, A-Z<sup>1</sup>

Europe

Special countries, A-Z<sup>1</sup>

Asia

Special countries, A-Z<sup>1</sup>

Africa

Special countries, A-Z<sup>1</sup>

Australia

New Zealand

Pacific islands

Streetlighting

Cf. TK4188, Electric lighting

Torches

Candles, see TP793

Lamps

Ancient lamps, see NK4680

## Gas industry

Periodicals, societies, etc., see TP700

Directories, see TP714

History, statistics, regulation, see TP715-739

Special countries, see TP721-739

Public ownership, see HD4486-4495

General works

General special

e. g. Corrosion and its prevention

Business management

Coal, oil, shale, and other resources for gas manufacture

Gasworks

For special plants, see TP721-739

Tables, pocketbooks, etc.

Analysis, tests, recorders, purification, etc.

Byproducts

Gas storage. Gasholders

Distribution. Mains, pipes, etc.

be divided: .x, General; .x2, Local, A-Z, e. g. .G7, Great  
al); .G72L6, London

- 76.2 Gas  
 76.3 Gas in buildings  
 76.4 Gas as fuel  
 76.5 Natural gas, see T1350; T1351  
 76.6 Gasification of coal and oil  
 76.7 Including underground gasification of oil  
 76.8 T1351, Coke, carbonization of coal  
 76.9 T1351.7, Coal and oil resources of  
 76.10 T1351, Gas producers  
 76.11 Water gas  
 76.12 Other special kinds, A-Z  
 76.13 Gas system  
 76.14 Compressed gas  
 76.15 Liquid gas  
 76.16 Gelsolene  
 76.17 Other gas  
 76.18 Liquefied gas  
 76.19 Gasifier gas  
 76.20 Large gas, see T1341-1344  
 76.21 Gas producing for industrial purposes  
 76.22 Acetylene industry  
 76.23 Periodicals, societies, etc.  
 76.24 General works  
 76.25 Apparatus  
 76.26 Artide manufacture  
 76.27 Clay industries. Ceramics. Glass  
 76.28 Cf. H-5 6-5680, Economics  
 76.29 T1341-1345, Ceramics (Art Industries)  
 76.30 T1346-1349, Glass (Art Industries)  
 76.31 T1352, Ceramic materials  
 76.32 T1353, Glass in engineering  
 76.33 T1341-1343, Mineral industries  
 76.34 Periodicals, societies, etc.  
 76.35 Periodicals on glass alone, see T1345  
 76.36 Exhibitions. Museums  
 76.37 Arranged like 1A6  
 76.38 Dictionaries and encyclopedias  
 76.39 Directories  
 76.40 Collected works (nonserial)  
 76.41 History  
 76.42 General works  
 76.43 Ancient  
 76.44 Medieval  
 76.45 Modern  
 76.46 Country divisions  
 76.47 America  
 76.48 United States  
 76.49 States, A-W  
 76.50 Cities, A-Z  
 76.51 Canada. British America  
 76.52 Other American countries, A-Z  
 76.53 European countries, A-Z  
 76.54 Other countries, A-Z  
 76.55 Biography  
 76.56 General works  
 76.57 Individual, A-Z  
 76.58 Potters' marks, see NK421.5

	General works
07. AA-Z	Early to 1800
.A-Z	1800-
08	Popular works
	a. g. How to make pottery, the potter's
09	Tables, calculations, etc.
.5	Equipment and supplies
10	Chemistry of pottery
.5	Materials
11	Clay and clay analysis
	CF. TM41-43, Mineral industries - Cl.
	Glazes, enamels, etc.
	CF. BK497-5015, Enamels (Art.)
	TM33, Pottery decoration
12. AA-Z	Portals, production, etc.
.A-Z	General works
15	General special
	a. g. Shallow of clay, vitrification,
	engraving, etc.
16	Study and teaching
17	Pottery machinery
18	Catalogs of pottery, stoneware, porcelain,
19	Earthenware. Stoneware
20	Porcelain
21	Technology of ceramic decoration. Glazes,
22	<u>Architectural ceramics</u>
	<u>Bricks and brickmaking</u>
	CF. TM432-433, Properties of bricks
	Special countries
26	United States
.5	Other countries, A-Z
	General works
27. AA-Z	Early to 1800
.A-Z	1800-
28	General special
29	Brickmaking machinery, etc.
30	Pressed brick
32	Other varieties. By name, A-Z
	.65 Clinker brick
	.66 Cob
	.F5 Firebrick
	.G6 Glazed brick
	.G7 Granillo brick
	.H7 Hollow brick
	.J7 Lock-joint brick
	.K2 Sand-lime brick
33	General catalogs
35	Terra cotta
	CF. TM432-433, Properties of terra cot
37	Tiles
	CF. NA3705, Architectural decoration
	BK4640-4675, Art industries
	TM432-433, Properties of tile
	TM8521-8541, Tile laying and tile
38	Fire clay products (General)
	Firebricks, <u>see</u> TM832.F5
	Refractories, <u>see</u> TM677



- .D5 Diamonds
- Cement industries. Cement, lime, mortar, etc.
- Industrial processes only. For engineering on-site preparation, see TA434-446
- 875 Periodicals, societies, etc.
- Directories
- 876.A2A-Z General works
- .A4-Z By country, A-Z
- 877 General works
- Special countries
- United States
- 879.A1A-Z General works
- .A2-W States, A-W
- 880 Other countries, A-Z
- 881 Cement manufacture
- Including concrete when used for the floor provided for in TP885
- 882 Plants and equipment
- .3 Analysis of cement
- 883 Portland cement
- 884 Other special, A-Z
- .A3 Additives
- .A8 Asbestos cement
- .A85 Asphalt concrete
- .C5 Clinker concrete
- .L5 Lightweight concrete
- .M2 Magnesia cements
- .S3 Sand-lime products
- Articles of cement or concrete
- Factory made products only
- Cf. TP295, Handicrafts
- 885.A2A-Z General works
- .A5-Z Special. By name, A-Z
- .C7 Concrete blocks and slabs
- Cf. TM491, Concrete block
- .P5 Pipe and tile
- Cf. TM47, Pipes of cement
- TP839, Drain tile and sewer
- Sidewalks, curbs, see TP291
- .T7 Trusses
- 886 Lime and limekilns
- Cf. TP841-842, Clay
- 887 Mortar
- 888 Plaster and other gypsum products
- Cf. TM8135-8139, Building trades
- 889 Magnesia industries
- Textile bleaching, dyeing, printing, etc.
- Cf. TS1449, Textile chemistry
- 890 Periodicals, societies, etc.
- 891 Directories
- 892 Theory - Color combinations, etc.
- 893 General works
- 894 Bleaching, cleaning, scouring
- .5 Bleaches
- 895 Cleaning
- Cf. TP909, 932, Domestic dyeing
- TP990, Cleaning compounds
- 897 Dyeing
- Dyeing of cotton, see TP930
- 899 Dyeing of wool

- 901 Dyeing of silk  
 902 Dyeing of artificial silk  
 903 Dyeing of linen  
 Dyeing of fur, see TS1061  
 Dyeing of leather, see TS967  
 Dyeing of paper, see TS1118.09  
 907 Special colors. Effects, shades, not dyes  
     g. g. Khaki  
 908 Dyeing of special articles  
 909 Garment dyeing and cleaning. Domestic dyei  
     Cf. TP932, Garment cleaning  
     Dyes  
         Periodicals, societies, etc., see TP890  
         General works  
         Artificial dyes  
             Coal-tar colors. Aniline dyes. Azo dy  
             Anthracene dyes  
             Other special dyes, A-Z  
                 See also TP924, Artificial indigo  
         Natural dyes  
         Indigo  
         Artificial indigo  
         Other special dyes, A-Z  
         Mordants  
         Miscellaneous  
 930 Textile printing. Calico printing. Cotton d  
     Cf. TS1475, Textile design  
 931 Special, other than cotton or calico, A-Z  
     .C2 Carpet yarns  
     .S6 Silk fabrics  
 932 Garment cleaning, dry cleaning, etc.  
     Cf. TP980-999, Laundry  
     .5 Wet cleaning  
 933 Feather renovating, etc.  
Paints, pigments, varnishes, etc.  
     Manufacture only  
     Cf. ND1500-1550, Fine arts  
         TP300-382.5, Industrial painting  
 934 Periodicals, societies, etc.  
     .3 Dictionaries and encyclopedias  
     .5 Directories  
 935 General works  
     .A2-4 Documents  
         United States  
     .A2U4-5 Serial  
     .A2U6 Special. By date  
     .A3A-W By state, A-W  
     .A4A-Z Other countries, A-Z  
     .A5-Z Nonofficial works  
 936 Paints and pigments. Zinc oxide. Iron oxide  
     Cf. TP682, Linseed oil  
         TP951, Blacks  
         TP977-979.5, Turpentine, etc.  
     .5 Paint analysis, testing, etc.  
 937 Catalogs  
     .5 Paint machinery  
         For grinding, mixing, etc.  
     .7 Driers, thinners, fillers, etc.

938	Varnishes. Shellac
939	Lacquers and enamels
940	Polishes
941	Patty
942	Japanning materials
944	Blacking materials
	<u>Ink manufacture</u>
	Cf. Z45, History of writing materials
	Z112, Paleography
946	General works
947	History
948	Particular inks. By name, A-Z
	.A8 Arnold's fluid
949	Printers' ink
	Cf. Z247, Printing
.9	Catalogs of dealers
.95	Other special inks
	e. g. Inks for recording instruments
950	<u>Miscellaneous organic chemical industries</u>
951	Blacks
	Cf. TP245.C4, Carbon
953	Coal products, coal tar, etc.
	Cf. TP914, Dyes
955	Dentifrices
958	Essences, essential oils and ethers
	Cf. RS201.E7, Pharmacy
963	Fertilizers
	Cf. S631-669, Use of fertilizers
	TD772, Manufacture of fertilizer
965	Gelatine
	Glue and other adhesives
967	Periodicals
.6	Directories
968	General works
970	Mucilage and pastes
973	Glycerine
	<u>Gums and resins. Turpentine, etc.</u>
	Cf. TP1101-1185, Plastics
977	Periodicals
978	General works
979	Resinography
.5	Special, A-Z
	.B4 Benzoin
	.I6 Ion exchange resin
	.P6 Polysaccharides
	Perfumes, cosmetics, and o
983.A1-5	Periodicals, societies,
.A6A-Z	Directories
	Diography
.A65A-Z	Collective
.A66A-Z	Individual, A-Z
.A7-Z4	General works
.Z5A-Z	Trade publications
988	Sealing. Sealing compound
990	Soap, cleaning compounds, -
	Cf. TP895, Cleaning
991	Soaps
	Soap brands and trad
	States, T223.V4S6

Soap, cleaning compounds, etc. - Continued

Metallic soaps

Other cleaning compounds

Candles

Cf. TP670-693, Oils, fats, and waxes

TS1980, lard, tallow, etc.

TT896.5, Handicraft

Surface active agents

Utilization of wastes

Prefer field of application

Cf. TS169, Waste control

Periodicals, societies, etc.

General works

Special, A-Z

.B3 Bagasse

.C6 Corncobs

.C7 Cornstalks

.C75 Cotton

.F5 Fish

.T5 Tin

.W6 Wood

Cf. TS875, Fiberboard, particle board,

Wood distillation

Cf. TS920-936, Chemical processing of wood

## PLASTICS AND PLASTICS MANUFACTURE

Cf. HD7661-9662, Economics

TA455.P5-55, Materials of engineering and

TA668, Structural engineering

TJ1194, Materials used in machine and hand

TT297, Plastic craft

Periodicals, societies, etc.

Yearbooks

Congresses

Exhibitions. Museums

Subarranged like TA6

Collected works (nonserial)

Dictionaries and encyclopedias

Directories

Patents

History

General works

Special countries

United States

Other countries, A-Z

Biography

Collective

Individual, A-Z

General works

General special

Popular works

Juvenile works

Study and teaching

Laboratory manuals

Handbooks, manuals, tables, etc.

Catalogs

Plastics plants and equipment

- 140 Technical chemistry of plastics (Analysis)
- Testing for mechanical properties, see T
- 145 Handling, packing, etc.
- 148 Safety measures
- Technical processes (Special)
  - For general works, see TP1120
  - 150 Molding and casting
  - 155 Machining and cutting
  - 160 Welding
  - 165 Joining and bonding
  - 170 Finishing and decorating
  - 175 Other processes, A-Z
    - .E9 Extrusion
    - .M4 Metallizing
- 177 Reinforced plastics
  - Special reinforcement materials, A-Z
    - .A2 Asbestos
    - .G5 Glass
- 180 Special plastics, A-Z
  - .A33 Acetal resins
  - .A35 Acrylic resins
  - .A5 Aminoplastics
  - .B3 Bakelite
  - .C2 Casoin
  - .C4 Cellophane
  - .C5 Colluloid
  - .C6 Cellulose
  - .D5 Diethyl phthalate
  - .E6 Epoxy resins
  - .F5 Fiberloid
  - .F6 Fluorocarbons
  - .F8 Furans
  - .G8 Gum plastics
  - .I8 Lucite
  - .P4 Phenolite
  - .P5 Ploxiglas
  - .P55 Polyamides
  - .P56 Polybutenes
  - .P57 Polycarbonates
  - .P6 Polyesters
  - .P65 Polyethylone
  - .P66 Polyimides
  - .P67 Polyolefins
  - .P68 Polypropylene
  - .P7 Polytetrafluorethylene
  - .P8 Polyurethanes
  - Polyvinyl, see .V48
  - .S7 Styreno
  - .T4 Tenite
  - .T5 Thermoplastics
  - .T55 Thermosetting plastics
  - .V42 Vinidur
  - .V48 Vinyl
- 1183 Special forms, A-Z
  - .B3 Bars
  - .F5 Films
  - .F6 Foamed plastics
  - .L3 Laminated plastics
  - Reinforced plastics, see TP1177

Plastics and plastics manufacture - Continued

Special products, A-Z

- .C6 Containers
- .E4 Electric apparatus and appliances
- .E5 Electric insulators
- .E9 Eye protectors
- .F8 Furniture
- .M3 Machine parts
- .P5 Pipe
  - Cf. TH633C, Plastic pipes in plumbing
- .T3 Tanks

1	Periodicals. Societies. Almanacs. Yearbooks
5	Congresses
6	Exhibitions. Museums
	Subarranged like TA6
	Cf. TR646-647, Exhibitions of artistic phot
7	Collected works (nonserial)
9	Dictionaries. Encyclopedias
12	Directories. Bluebooks
15	History (General)
126	Country divisions. Table I <sup>1</sup>
	Biography
	Prefer TR650-654 for collections of artist
	by one photographer where biographic mate
139	Collective
140	Individual, A-Z
	General works
144	Early to 1850
145	1850-
146	Elementary works. Handbooks, manuals, etc.
147	General special
	e. g. Manipulation, causes of failures, etc
148	Photographic amusements. Trick photography
149	Popular works. Juvenile works
150	Photographers' reference handbooks
151	Tables, formulas, etc.
154	Photography as a profession
161	Study and teaching
162	Examinations, questions, etc.
179	Composition
183	Psychology, aesthetics, etc.
	Cf. TR640-685, Artistic photography
185	Addresses, essays, lectures
	Law. Legislation
	General works
193.A1-3	Documents. Collections
.A5-Z	Treatises
195	Special countries, A-Z
	Under each:
	.A1-3 Documents. Collections
	.A4 Codes. By date
	.A6-Z Other
	<u>Materials, supplies, etc.</u>
196	General works
	Including testing
197	Catalogs of apparatus
198	Catalogs of materials and supplies
199	Catalogs of views, etc. (General). Special
200	Theory of photographic processes in general
210	Photographic chemistry and chemicals
212	Photographic chemicals
215	Photographic physics
220	Photographic optice
225	Recovery of photographic wastes

General works

Prefer TR263 for special makes of cameras  
Motion picture cameras, see TR880

View cameras

Hand cameras

Automatic cameras. Electric eye cameras

Reflex cameras

Miniature cameras

Special makes of cameras, A-Z

e. g. .C5 Viro-flex

.Y3 Yashica

Camera accessories

Catalogs, see TR197

Pinhole photography

Lenses

Sensitive surfaces

Including sensitometry

Plates

Films

Papers

Photographic processing. Darkroom technique (General)

Treatment of negatives

Development

Intensification and reduction

Fixing and washing

Finishing, retouching

Treatment of positives

Printing

By electric or other artificial light

Fixing. Toning. Intensification

Finishing

Trimming, mounting and framing of prints

Photographic processes

Direct positives

Daguerrotype

Ambrotype

Ferrotypes (Tintypes)

Processes with salts of silver

Collodion process

Emulsion processes. Aristotypes, calotypes,

Other processes. Salts of silver and other

e. g. Kallitype

Processes with salts of iron

Blueprints from photographic negatives. Cyanotypes

Cf. TR921, Industrial blueprints

Processes with salts of platinum

Processes with salts of metals

Chromium. Ozotype, etc.

Carbon processes. Pigment processes

Gum-bichromate process. Photoaquatint

Photography of colored objects. Orthochromatic  
chromatic, etc.

Cf. TR510-545, Color photography

Other processes

e. g. Oil process

Conservation and restoration of photographs

Copying

Cf. TR825, 835, 900-923, Reproductions

Enlargement and reduction

Cf. TR905-910, Industrial reproduction



- Coloring of prints. Airbrush work, etc.
- Photo-olographs
- Photographs on metal, glass, cloth, leather, etc.
- Photoenamels. Photoceramics
- Transparencies. Diapositives
- Lantern slides
- Projectors
  - Cf. TR890, Motion-picture projectors
  - Catalogs
  - Overhead projectors
- Color photography
  - Cf. TR453, Photography of colored objects
  - Materials, supplies, etc.
  - Including testing
  - Tricolor
  - Interferenco. Lippmann's process
  - General darkroom procedures. Processing of exposures
  - Treatment of positives
  - Printing
- Studio and laboratory
  - Darkrooms
  - Accessories and apparatus
  - Studio lighting
  - Portrait photography
    - Cf. TR680, Artistic photography
    - Advice to sitters
    - Business methods
- Lighting
  - Cf. TR573, Studio lighting
  - Artificial and natural
  - Light filters
  - Exposures
    - Instantaneous
      - Exposures of one thousandth of a second or less
    - High speed
      - Exposures shorter than one thousandth of a second
    - Daylight
    - Artificial light
    - Flashlight. Flash photography
  - Night views
  - Open air views
  - Interiors
- Applied photography
  - Here are classed techniques for taking and using photographs in special fields. Collections of photographs in special fields are normally classed with the subjects. e. g. pictorial works in natural history in QH1-9; of modern Greece in DF719; pictorial works on American Indians in E77.5. However, collections of artistic photographs, or collections where the artistic intent is more overriding than the actual subject, are classed in TR640-685
  - Periodicals, dictionaries, etc., see TR1-15
- Artistic photography
  - Periodicals, societies, congresses, etc.
  - General works

Artistic photography - ContinuedExhibitions

Subarranged like TA6

Prefer TR650-654 for collections of

Works of more than one photographer

Works of individual photographers. By

Collections

General works

by period

1800-1850

1851-1900

1901-1950

1951-

Abstract photography

Photography of art objects

Paintings

Architectural photography

Landscape photography

General works

Collections

Panoramic views

Marinas. Seashore photography

Human figures. Photography of the nude

General works

Collections

Glamor photography

Portraits

Cf. TR575-581, Portrait photography

Collections

Special classes of persons, A-Z

.B6 Boys

.C5 Children

.F3 Famous persons

.I6 Infants

.W6 Women

Photographic patterns. Textures

Close-up photography

Table-top photography

Composite photography. Photomontage

Commercial photography

Cf. TR550-581, Studio and laboratory

Freelance photography. Amateur photography

Cf. TR320, Photography in journalism

Photography in advertising

Scientific and technical appl

General works

General special

Photogrammetry

Cf. TA593, Photo

TR810, Aero

Tables, formulas

Instruments, equip

Photography in eng

Industrial photogr

Medical photograph

Scientific expediti

Space photography

Astronomical photo

Photomicrography,

Scientific and technical applications - Continued

Nature photography

Cf. QH46, Pictorial works in natural history

General works

Plants, flowers, etc.

Special subjects, A-Z

.T7 Trees

Animals

Special subjects, A-Z

.B5 Birds

.C3 Cats

.D6 Dogs

.I6 Insects

.L5 Livestock

Agricultural photography

Radiography

Cf. QD945, X-ray crystallography

RC78, Medical radiography

TA417.25, Radiographic examination

Infrared photography

Polarized-light photography

Telephotography

Archaeological photography

Stereophotography

Cf. TR854, Stereoscopic motion pictures

Military photography, see UG476

Geographical applications

Mountain photography

Subterranean photography. Cave photography

Travel photography

Cold weather photography

Tropical photography

Submarine photography

Cf. GC60, Photography in oceanography

Aerial photography. Photographic interpretation

Photography in library science, see Z681

Audiovisual photography. Photography in education

School photography

Wedding photography

Photography in journalism

Sports photography

Photography in criminology and law

Cf. KF8968, Photographic evidence (U. S.)

Photographic reproduction. Photocopying processes

Cf. Z265, Printing

General works

Dictionaries. Encyclopedias

Directories

Industrial reproduction, see TR900-923

Photomechanical processes, see TR925-1045

Photography of art objects, see TR657-658

Photography of manuscripts, historic documents, etc.

Microfilming

Cinematography. Motion pictures

Cf. NC1765, Cartoons

PN1993-1999, Drama

TR592, Instantaneous photography

UF840, Photochronograph in ballistics

Periodicals and societies. Yearbooks. Collections

Congresses

- .5 Dictionaries and encyclopedias
- Directories
- History
- Biography
  - Inventors, projectionists, etc.
  - Actors and actresses, see PN2287, etc.
  - Producers, directors, etc., see PN1998.A2-
- .1 ALA-Z
- .2 A2-Z
- Collective
- Individual, A-Z
- General works
  - Treatises
  - Elementary and juvenile works
- .8 Tables, calculations, etc.
- Study and teaching
- Special photographic processes
  - Color cinematography
  - Three-dimensional motion pictures
    - True 3-D and simulated 3-D
    - Stereoscopic motion pictures
      - Including general works on 3-D's
  - Wide-screen processes
  - Time-lapse photography
  - Trick cinematography
- Motion-picture machines
  - Motion-picture cameras. Cinematograph
  - Electronic cameras. Television cameras
  - Special makes of motion picture cameras, A-Z
    - e. g. .D6 Bolex
  - Other special machines
    - Kinotoscope, photochronograph, etc.
- Motion-picture films
  - General works
  - Processing of exposed film
  - Preservation
  - Splicing
  - Catalogs, etc.
  - Classification
- Projection
- Applied cinematography
  - General works
  - Artistic cinematography
  - Educational cinematography
    - Cf. LB1044, Audiovisual education
  - Scientific cinematography
    - Microcinematography, see QH255
    - Medical cinematography
    - Nature cinematography
    - Wildlife cinematography
    - Submarine cinematography
  - Industrial cinematography
  - Commercial cinematography
    - Freelance cinematography
    - Advertising cinematography
  - Newsreel cinematography
    - Cf. PN4784.M6, Motion-picture journalism
  - Documentary cinematography
    - Cf. PN1995.9.D6, Drama
  - Family cinematography
  - Vacation and travel cinematography
- Sound motion pictures

898	Motion pictures for television Cf. FNL992.63, Drama
899	Miscellaneous
	Titling, editing of films, exposing of
900	<u>Industrial reproduction</u>
905	Enlargements
910	Reductions
915	Direct reproductions on same scale
920	Processes for reproducing working drawings
921	Blue processes. Blueprints
923	Black processes
925	<u>Photomechanical processes</u>
927	Special applications. Book illustration,
930	Collotype processes
933	Albertype
935	Autotype
937	Heliotype
940	Photolithography
950	Aluminium process
955	Photozincography
960	Photoxylography
970	Photoengraving. Relief processes
975	Halftone process
976	Mezzograph
977	Color processes
	Cf. TR510-545, Color photography
980	Photogravure. Heliogravure. Intaglio processes
	Gelatine relief processes
990	Photogalvanography
995	Woodburytype. Photoglyptic
997	Stannotype
1010	Phototypesetting
1025	Electrophotography
1042	Electrostatic printing
1045	Xerography

Periodicals, societies, etc.

Congresses

Exhibitions, museums, see T180-183 and T391-495

Collected works (nonserial)

Encyclopedias and dictionaries

History

Country divisions. Table I<sup>1</sup>

Cf. T21-31, Technology (General)

Biography

Collective

Individual, A-Z

General works

Early to 1800

1800-

Juvenile works. Popular works

Pictorial works

Workshop manuals, etc., see T153

Cf. T1165, Machinists' manuals

Tables, receipts, etc., see T79

Addresses, essays, lectures

General special

Production management. Operations management

Including factory management

Periodicals, societies, etc.

General works

Study and teaching, see T56.4

Manufacturing personnel

Cf. HF5549-5549.5, Personnel management

T54-55.3, Plant safety

TA158, Industrial technicians

Plant supervisors

Foremen

Control of production systems

Quality control

Periodicals, societies, etc.

General works

Inspection

Grading

Acceptance sampling

Quality assurance

Process control

Production control

Cf. HF5415.2, Market research

TS176-183.6, Productivity

Periodicals, societies, etc.

General works

Scheduling

Gantt charts

Critical path method

PERT

Line of balance technique

Automatic data collection systems

- 160 Inventory control  
     Cf. HD52.5, Industrial procurement  
     HD55, Inventory policy  
     HF5484-5494, Warehousing. Commer
- 161 Materials management
- 162 Economic lot size. Economic order quan
- 163 Stockkeeping  
     Cf. TS189.6, Storerooms. Warehouse
- 165 Cost control  
     Cf. HD47.5, Economics  
     TA178-185, Engineering economy
- 166 Estimating
- 167 Manufacturing costs
- .5 Break-even point
- 168 Value analysis. Value engineering
- 169 Waste control
- 170 Product engineering  
     Cf. T59-59.2, Standardization  
     TS195-198.8, Packaging  
     Industrial research, see T175-178  
     Product design. Industrial design
- 171.A1A-Z Periodicals, societies, congresses, etc  
     Exhibitions, museums, see T179-183 and  
     Special countries and designers, see TS
- .A5-Z General works
- .4 General special
- .6 Pictorial works
- 172 Tolerances  
     Cf. T50, Technical metrology
- 173 Reliability
- 174 Maintainability
- 176 Manufacturing engineering. Process engineeri  
     Including manufacturing planning, produ  
     Cf. HD58, Plant location
- 177 Plant design. Factory planning
- .3 Plant size
- 178 Plant layout  
     .2 Batch production  
     .4 Production lines. Assembly line proces  
     .5 Line balancing  
     .7 Operation sequence analysis
- 180 Materials handling  
     .3 Machinery  
     .5 Loading and unloading  
     .6 In-plant transportation  
     .8 Special materials, A-Z  
         .B8 Bulk solids
- 181 Planning for machinery. Equipment analysi  
     Cf. TS191.3, Installation of machinery
- .3 Selection
- .4 Tool life
- .6 Replacement
- 183 Manufacturing processes  
     Cf. TJ1180-1313, Tool engineering
- .3 Process planning
- .6 Make-or-buy decisions

## Plant engineering

- Cf. T54-55.3, Plant safety
- T59.77, Working environment
- TD895, Factory sanitation
- TD897-899, Factory waste disposal
- TH9445.M4, Fire prevention in factories
- TH9745.F3, Plant protection

Factory buildings. Industrial buildings

- Cf. RA6400-6589, Architecture

TH4511-4591, Factory construction

Plant utilities

For specific utilities, see the utility, e

Heating of factories

Employee facilities and buildings

Plant service facilities

Toolrooms and cribs

Storerooms. Storage facilities. Warehouse

Plant grounds

Cf. SB476, Landscape gardening

Machinery and equipment

Installation

Catalogs

Plant maintenance

Plant housekeeping

## Packaging

For packaging of special products, see the pro

TP373, Packaging of food

Cf. HF5770, Shipping of merchandise

TA1215, Containerization of freight

TJ1545, Packaging machinery

Periodicals, societies, congresses, etc.

Directories

General works

General special

Design

Standards and specifications

Testing

Management

Costs

Machinery

Labeling

Printing

Handling

Containers (General)

Special containers and packaging methods, A-Z

.A3 Aerosols

.B3 Bags

.B6 Boxes

Cf. TS900, Boxmaking

.P7 Pressure packaging

.W7 Wrapping

## Materials

Special materials, A-Z

Prefer TS198

.A3 Adhesives. Tapes

.C6 Coatings

.F5 Films. Foils

.G5 Glass

.M4 Metal (non-foil)

.P3 Paper. Paperboard



- 98.3 Special materials, A-Z  
     .P5 Plastics (non-foil)  
         Tapes, see .A3  
     .T5 Textiles  
     .W6 Wood
- .5 Packaging for protection from mechanical damage  
     Including packing for shipment
- .6 Special protective materials and shipping containers  
     Prefer TT198  
     .B3 Barrels  
     .C6 Conex containers  
     .C7 Crates  
     .C8 Cushioning  
     .D7 Drums  
     .E9 Excelsior  
     .F3 Pallets
- .7 Packaging for protection from exposure to harmful  
     Special environments, A-Z  
     .C6 Corrosion  
     .F8 Fungi  
     .M6 Moisture
- 99 General catalogs

### METAL MANUFACTURES. METALWORKING

Including metal forming and working

- 00 Periodicals, societies, etc.  
 03 Directories  
 05 General works  
 07 Cold working  
 10 Handbooks, tables, etc.  
 13 General special  
 14 Scrap metals  
 15 Metalworking machinery  
     Cf. TJ1180-1313, Machine and hand tools  
 Machining, see TJ1185-1191  
 25 Forging. Drop-forging  
     Cf. TT218-223, Blacksmithing
- .2 History  
     .A1A-Z General works  
     .A5-Z By country, A-Z
- 26 Joining of metals  
     Bonding (Metal finishing), see TS718  
     Brazing, see TT267  
     Fastenings, see TJ1320-1340  
     Riveting, see TA891; TJ1325  
     Sealing (Machinery), see TJ246  
     Soldering, see TS610; TT267  
     Welding  
         Cf. TA492.W4, Welded joints  
         TT211, Welding in mechanical arts
- 27.A1A-Z Periodicals, societies, etc.  
     .A4-Z General works  
     .5 Dictionaries and encyclopedias  
     .55 Examinations, questions, etc.  
     .6 Research

	<u>Welding. - Continued</u>
227.7	Vocational guidance
.8	Safety measures
	Gas welding. Oxyacetylene welding
228. A1A-Z	Periodicals, societies, etc.
.A2-Z	General works
.2	Oxygen cutting
(.4)	Electric welding, <u>see</u> TH600
	.A1 Periodicals, societies, etc.
(.5)	Arc welding
(.7)	Resistance welding
(.8)	Electric cutting, <u>see</u> TH660.5
.9	Pressure welding
	<u>Casting. Foundry work</u>
	General foundry work, including iron
	For the founding of special metals:
	Steel, <u>see</u> TS375, 551-640
228.94	Periodicals, societies, etc.
229	Directories of foundries
.3	Dictionaries and encyclopedias
.5	History
	.A1A-Z General works
	.A5-Z By country, A-Z
230	General works
231	Cupola furnaces
	Cf. TH715, Blast furnaces
233	General special
	e. g. Automation
234	Specifications
235	Tables, calculations, etc.
236	Castings
237	Foundry equipment and supplies. Cf.
238	Foundry management. Estimating, etc.
	Including safety measures
239	Diecasting
240	Patternmaking
	Patternmaking for sheet metals, <u>see</u>
	Patternmaking for tin and copper,
243	Molding. Coremaking
.5	Molding materials. Molding sand
245	Powder metallurgy processes and manuf.
	Cf. TH695, Metallurgy
250	Sheet metalwork
	Tinsmithing, <u>see</u> TS600
	Coppersmithing, <u>see</u> TS620
253	Metal stamping
	Including punch and die work, press
	etc.
	Cf. TJ1255-1257, Punching machines
255	Extrusion of metals
256	High energy forming
257	Explosive forming
260	Loaf metals
	Wiremaking
	Cf. TS1787, Wire rope
270. A1A-Z	Periodicals, societies, etc.
.A2-Z	General works
271	Barbed wire
	Cf. S723, Fences

- Cf. TH2376-2278, Screens  
 275 Sieves  
 280 Pipes and tubes  
 282 Catalogs  
 283 Pressure vessels  
     Cf. TA360, Tanks  
 285 General catalogs of metal manufactures  
     Iron and steel  
         Cf. HD7510-9529, Economics  
 300 Periodicals, societies, etc.  
  
 .5 Exhibitions  
     Subarranged like TAG  
 301 Directories  
 302 Dictionaries and encyclopedias  
     History, see TN703  
     Special countries  
         Cf. TN704, Metallurgy  
 303 United States  
     Cf. TH300.A5+, American iron and steel  
  
 .5 Biography  
 304 Other countries, A-Z  
 305 General works  
 307 General special  
     Including patents  
 309 Catalogs  
     Specifications, see TM66  
 320 Steelworking. Tool steel  
     Steel plants  
         Technical descriptions, histories, etc.  
 330.A1A-Z Collective  
     .A2-Z Individual, A-Z  
 340 Rolling of metals. Rolling mills and machinery  
 350 Structural iron and steel  
     Cf. TA685, Pocketbooks, tables, etc.  
 360 Sheet iron and steel  
     Steel pens, see TS1263  
Nonferrous metals (General)  
 370.A1A-Z Periodicals, societies, etc.  
     .A2-Z General works  
 375 Founding. Casting  
     Special plants  
 377.A1A-Z Collective  
     .A2-Z Individual, A-Z  
 380 Cutlery  
 381 Scissors and shears (hand)  
Hardware  
     Cf. HD9745, Economics  
         TH5618, Carpenters' tools  
         TH6299, Plumbers' tools  
     Periodicals, see TS200  
 400 General works  
 403 Directories  
 405 Catalogs  
 408 Furniture  
     Steel, iron, other metal  
     Cf. TS880-887, Lumber and woodwork  
 410 Scales

Sales

Gr. TH9734, Security in buildings  
Stoves and ranges

Gr. TX657.43-8, Home economics  
Miscellaneous articles of iron and steel  
e. g. Chains, nails, etc.

Catalogs

Instrument manufacture

Gr. Q184-285, Scientific instruments and  
TA165, Engineering instruments

Optical instruments

Periodicals, societies, congresses, etc.

Special companies, A-Z

General works

Standards and specifications

Catalogs

Preparation of optical surfaces

Including grinding and polishing

Liquid crystal devices

Locksmithing

Gr. BK8200-8299, Recreative art

Periodicals, societies, etc.

History

General works

Catalogs of locks

Catalogs of keys

Firearms, Guns

Gr. BK6200-6999, Recreative art

Periodicals, societies, etc.

Museums. Exhibitions

Subarranged like TA6

Collectors and collecting

History

General works

Special countries

United States

By state, A-W

Other countries and regions, A-Z

General works

General special

Catalogs

Gunsmithing

Gr. HD9743, Economics

SK274, Hunting

UD380-425, Military rifles, etc.

Special features and equipment, A-Z

.G8 Gunstocks

.P4 Telescopic sights

Maintenance and repair

Types of guns

Repeating firearms

Rifles

Special types, A-Z

.K4 Kentucky rifle

.M8 Muzzle-loading

.B5 Single-shot

Shotguns

Handguns

Including pistols and revolvers

Air guns

- 538 Ammunition  
 Cf. UF700-745, Military science
- .3 Handloading
- .5 Toargas munitions
- Watchos and clocks  
 Cf. HD9999.C58, Economics  
 NK7480-7499, Decorative art
- 540 Periodicals, societies, etc.
- .7 Dictionaries and encyclopedias
- 541 Museums. Exhibitions  
 Subarranged like TA6
- History
- 542 General works
- .5 Juvonilo works
- 543 By country, A-Z
- .5 Special clocks. By place, A-Z
- 544 Standard clock systems. Electric clock
- .5 Contrncts and specifications
- .8 Biography, A-Z
- 545 General works
- .8 Study and teaching. Schools
- .9 Vocational guidance
- 546 Watchmakers' lathes and other mechnery
- 547 Ropairing and adjusting
- 548 General special  
 e. g. Testing, reading the clock
- 549 Catalogs  
 Sundials, see QB215
- Light metals
- 551 Periodicals, societies, etc.
- 552 General works
- Aluminum  
 Cf. TN775, Metallurgy
- 554 Periodicals, socioties, etc.
- 555 General works
- 557 Catalogs
- 560 Magnesium
- 562 Titanium
- Brass and bronze
- 564 Periodicals, socioties, etc.
- 565 General works
- 570 Bronzo
- 573 Catalogs  
 Bells  
 For history and antiquities, see CC  
 Conoral works  
 Early to 1800  
 1800-  
 Genoral catalogs, etc.  
 For lists of the products of indi  
 makers, see CC206
- 589 Doorbells  
 Cf. TK7108-7118, Electric bells
- 590 Tinplate  
 Cf. HD9539.T5-6, Economics
- 597 Teblos, calculntions, etc.  
 Cf. HF5716.T4, Tables, etc.
- 599 Catalogs

Metal manufactures. Metalworking

- 600      Tinsmithing  
610      Soldering  
            Cf. TT267, Arts and crafts  
619      Tinware and tinsmiths' supplies  
620      Coppersmithing. Copper founding  
625      Catalogs  
640      Zinc  
650      Alloys  
            Cf. TA283, General properties of  
            TN690-693, Metallography
- Metal finishing (General)  
            Cf. TT382-382.8, Handicrafts  
653.Ak-Z      Periodicals, societies, etc.  
            .A2-Z      General works  
654      Cleaning and pickling  
655      Spraying  
657      Coloring  
660      Galvanizing and tinning  
            Electroplating. "Electrometallurgy"  
            Periodicals, societies, etc.  
670.A1A-Z      General works  
            .A2-Z      Plating baths  
672      Electroplated ware. Catalogs  
675      Silver plating  
680      Nickel plating  
690      Other metals, A-Z  
692      .C4 Chromium  
            .C6 Copper  
            .I7 Iron  
            .R5 Rhodium  
            .T5 Titanium  
            .T8 Tungsten  
            .Z5 Zinc  
693      Alloys  
            Anodic oxidation  
694      General works  
            Aluminum  
            .2      Vapor plating  
695      Phosphate coating  
696      Painting and lacquering  
698      Enameling  
700      Catalogs of enameled ware  
705      Cf. TT382.6, Handicrafts  
710      Coloring  
715      Gilding. Silvering. Bronzing  
            Cf. TT380, Mechanic trades  
718      Bonding  
            e. g. Rubber to metal bonding
- Precious metals. Gold and silver w  
            Cf. HD9536, Economics  
            NK7100-7695, Decorative art  
            NK7210, Hallmarks  
720      Periodicals, societies, etc.  
722      Dictionaries and encyclopedias  
723      History  
725      General works  
729      General special  
            e. g. Alloys, tables, calcula  
730      Silversmithing  
735      Silverware, etc. Catalogs

General works  
 Tables, calculations, etc.  
 Machinery. Sawmills. Planing mills  
 Care of saws, saw sharpening, etc.  
 Cf. TJ1235, Saw sharpening, etc.  
 General special  
 Catalogs  
 Compressed wood  
 Laminated wood  
 Veneers and veneering. Plywood  
 Fiberboard, particle board, etc.  
 Cf. TH1555, Fiberboard  
 Millwork. Planing-mill products  
 Cf. TH1151-1155, Architectural woodwork  
 Furniture  
 Cf. BK2200-2750, Decorative arts  
 TP1185.F8, Plastic furniture  
 TS408, Metal furniture  
 TT194-199.7, Arts and crafts  
 Periodicals, see TS840  
 General works  
 Exhibitions  
 Subarranged like TA6  
 Directories, see TS842  
 General special  
 Finishing  
 Cf. TT199.4, Handicrafts  
 Catalogs  
 Mixtures for stores, etc.  
 Cooperage. Barrels. Staves  
 Boxmaking  
 Cf. TS198.b6, Packaging  
 Miscellaneous manufactures of wood  
 General catalogs of woodwork  
 Cork industries  
 Cf. TP659, Bottling  
 Willow ware. Basketmaking  
 Cf. TT879.B3, Handicrafts  
 Miscellaneous hand-woven products  
 Baskets, trays, lampshades, etc.  
 Wire-grass industry  
 o. g. "Crex" products  
 Cf. TS1747-1750, Fiber industries

#### CHEMICAL PROCESSING OF WOOD

Including wood from trees and other woody plants

Periodicals. Societies. Collections  
 Congresses  
 Dictionaries and encyclopedias  
 Special countries  
 United States and Canada  
 Other countries, A-Z  
 General works  
 General special

- 933 Individual components, A-Z  
     .C4 Cellulose  
     .L5 Lignin  
 934 Chemical properties of individual timber  
 936 Processing methods  
     Cf. TP997, Destructive distillation of  
 937 Management  
     Special products  
         Charcoal, see TP331  
         Fiberboard, particle board, etc., see TS  
         Paper, see TS1080-1268  
         Rayon, see TS1544.R3  
         Tannins, see TS985  
         Turpentine, see TP977-979.5  
         Woodpulp, see TS1171-1177

### LEATHER INDUSTRIES. TANNING

- Cf. HD9780, Economics  
     TT290, Handicraft
- 943 Periodicals, societies, etc.  
 943 Exhibitions  
     Subarranged like TA6  
 945 Directories  
 947 Dictionaries and encyclopedias  
     History  
         950 General works  
         951 Origins  
         952 Medieval  
         954 Modern  
             Special regions or countries, A-Z  
                 United States  
                     General works:  
                     States, A-W  
                     Europe, A-Z  
                     Other countries, A-Z  
         965 General works  
         .5 Juvenile works  
         967 General special  
             o. g. Chemistry, testing, hides and skin  
         968 Study and teaching. Schools  
         970 Patent leather  
         980 Other special kinds of leather, A-Z  
             .S6 Sole leather  
             .U6 Upholstery leather  
             .U7 Uppers  
             .V6 Vici kid  
 985 Tanning materials. Tannins  
     Boot and shoemaking  
         Cf. HD9787, Economics  
 989 Periodicals, societies, etc.  
     Directories, see TS945  
     Dictionaries, see TS947  
     990 General works  
 1000 History  
     Cf. GT2130, Footwear (Costume)  
 1005 Machinery



Boot and shoemaking - Continued

Finishing processes

Hygienic shoes

General special

Repairing

.A1A-Z Periodicals, societies, etc.

.A2-Z General works

Catalogs

Harness. Saddles

Periodicals, societies, etc.

General works

Catalogs

Saddlery hardware

Including catalogs

Other kinds of leather work

Luggage, see T42301.18

Cf. HK6200-6210, Leather (Decorative art)

Leather work machinery - Catalogs

Imitation leathers

Special, A-Z

Articles of horn, ivory, bone, etc.

Cf. HK5800-5998, Ivory (Decorative art)

HK6000, Horn and bone (Decorative art)

T4288, Bone and horn craft

Furs

Cf. HF944, Economics

TF525, Fur garments

Periodicals, societies, etc.

General works

Directories

Catalogs

Animal fibers, see T53545

PAPER MANUFACTURE AND TRADE

Cf. HQ820-9839, Economics

245, 112, 237, 247, History

of writing and printing

Periodicals, societies, congresses, etc.

Dictionaries and encyclopedias

Directories

History

General works

Ancient (Papyrus, etc.), see Z105-115, Paleography

Origins (Arab, Chinese, etc.)

Medieval

General works

Special countries, A-Z

Modern

General works

Special countries, A-Z

Special companies, A-Z

Cf. T51210, Catalogs

Biography

General works

Early to 1800

1800-

General special  
e. g. Testing, waste prevention, use of cane  
hemp, etc.

Study and teaching. Schools

Watermarks, trademarks, etc. (Modern)

Cf. Z237, Watermarks of early printers

Papermills and their management

Water supply

Paper handling. Transportation

Machinery

Automation

Special manufacturing processes and equipment, *in*

.C8 Cutting and cutting machinery

.B7 Drying and drying machinery

.B9 Dyes and dyeing

.F4 Felts

.F5 Finishing. Coatings

.G5 Sizing

Chemistry of paper manufacture

Paper characteristics, properties, etc.

Paper types. Special papers

Papyrus

Cf. Z45 and 112, History of writing

Paperboard

Including cardboard, pasteboard

Corrugated paperboard

Papier mâché

Cf. TT871, Papier-mâché craft

Parchment

Woodpulp industry. Pulping processes

Cf. HD9750-9769, Economics

Periodicals, societies, congresses, etc.

Annals. Directories

United States. United States and Canada

Other countries, A-Z

General works

General special

Special pulps, A-Z

.A8 Aspen

.B3 Bamboo

.E9 Eucalyptus

.H3 Hardwoods

.L3 Larch

.P5 Pine

.S7 Spruce

.T7 Tropical woods

Special aspects, A-Z

.A5 Analysis of pulp

.B6 Bleaching of pulp

.B7 Equipment and supplies

Kraft processes. see .B9

.M4 Mechanical process

.S6 Soda process

.S9 Sulphate process

.S915 Sulphate waste liquor

.S92 Sulphite liquor

.S93 Sulphite process

.T4 Testing of pulp

.W6 Wood chips

- 7 Articles manufactured from woodpulp  
 Cf. TS2155, Papier mâché  
 Artificial flowers, see TT390-391  
 Other articles of paper  
 e. g. Bags, paper boxes, etc.  
 10. A1A-Z Periodicals, societies, etc.  
 .A2-Z General works  
 Catalogs of paper and pulp mill equipment and  
 e. g. Bags, paper boxes, etc.  
 15. A1A-Z Periodicals, societies, etc.  
 .A2-Z General works  
 O Catalogs of paper manufacturers  
 Cf. TT1096, History  
 10 Sample books  
Stationery  
 18 Periodicals, societies, etc.  
 9) Directories, biographies, see TS1088, 1098  
 O General works  
 13 General special  
 e. g. History and antiquities  
 18 Trade publications other than catalogs  
 .O Catalogs  
 10 Blank books, etc.  
 11 Copybooks  
 10 Ruling-machinery  
 Pens  
 12 General works  
 Including catalogs  
 13 Steel pens  
 15 Gold pens  
 16 Fountain pens  
 18 Pencils  
 Office supplies, see HF5688-5689

### TEXTILE INDUSTRIES

Cf. HF9850-9938, Economics  
 53241-261, Fiber plant culture

- 10 Periodicals, societies, conferences, etc.  
 11 Yearbooks  
 16 Museums. Exhibitions  
 Subarranged like TA6  
 19 Dictionaries and encyclopedias  
 2 Directories  
 History  
 .5 General works  
 .6 Ancient  
 .7 Medieval  
 .8 Modern  
 14 Special countries. Table I<sup>1</sup>  
 14.2 Arctic regions  
 .3 Antarctic regions

• Table I, see pp. 263-265. Add country number in table t

- Special corporations, mining, etc., etc.
- Bibliography
  - Collective
  - Individual, A-Z
- General works
  - Early to 1800
  - 1800-
- Elementary works
- General special
  - e. g. Microscopy, testing, safety measures, etc.
- Standardization
  - e. g. Thread numbers
- Production standards
- Handbooks, tables, etc.
- Vocational guidance
- Study and teaching
  - Problems, exercises, etc.
- Schools
  - United States
  - Other countries, A-Z
- Bleaching, dyeing, printing of textiles, see TP890
- Textile design
  - Cf. NK8800-8999, Decorative arts
  - TP930-931, Textile printing
- Spinning
  - Including preliminary processes
  - Cf. TS1577, Cotton spinning
  - TS1627, Woolen spinning
- Machinery
  - Spinning wheel, distaff, etc.
- Carding and combing
  - Cf. TS1578, Cotton carding
  - TS1628, Wool carding
  - TS1727, Flax spinning
- Machinery
- Sizing
  - Cotton sizing, see TS1580
- Weaving (Industrial)
  - Cf. TT848-850, Hand weaving
- Machinery. Looms
- Jacquard weaving
  - Including jacquard looms
- Finishing
- Coating of fabrics
- Croase-resisting process
- Morcerization
- Mothproofing
- Waterproofing
- Fireproofing, see TP267
- Textile machinery (General)
- Textile mills (Design and construction), see TH4
- Textile supplies
  - Catalogs
  - Directories
- Textile fibers
  - General works
- Vegetable
  - General works
  - Cotton
  - linen

- 1544 Vegetable - Continued  
 Others, A-Z  
 .A5 Ambrary hemp  
 .B3 Bast  
 .C4 Cellulose  
 .C5 Coconut fiber  
 .H1 Hemp  
     Cf. T31733, Hemp manufactures  
 .M3 Marine fiber  
 .R2 Rende  
     Cf. S2259, Plant culture  
 .S3 Rayon  
     Cf. T31688, Rayon manufactures
- 1545 Animal  
 General works  
 1546 Silk  
 1547 Wool  
 1548 Others, A-Z  
     .C3 Camel's hair  
     .H6 Hornchair  
     .MC Mohair  
     .V5 Vicuña
- .5 Synthetic  
 Inorganic fibers  
 1549.A1A-Z General works  
     .A3-Z Special, A-Z  
         .A7 Asbestos  
         .G5 Glass  
         .G6 Gold
- Cotton manufactures  
     Cf. H9870-9889, Economics  
     S2245-252. Cotton culture  
 1550 Periodicals, societies, etc.  
 1551 Yearbooks  
 1555 Directories  
 1557 Exhibitions  
     Subarranged like TAG
- History  
 1560 General works  
 1561 Ancient  
 1562 Medieval  
 1564 Modern  
 1565 Special regions and countries, A-Z  
 1566 Special companies. By name, A-Z  
 1570 Biography  
 1575 General works  
 1576 Elementary works  
 1577 Spinning  
     Including preliminary processes  
 1578 Carding. Combing. Lapping  
 1579 Weaving  
 1580 General special  
     Including finishing processes  
 1581 Handbooks, tables, calculations, etc.  
 1583 Cotton machinery  
 1585 Cotton gin  
 1587 Cotton waste products  
     Cf. TP996.C75, Chemical technology

	Cotton baling, <u>see</u> SB252
1590	Thread manufacture
	<u>Woolen manufactures</u>
	Cf. HD9890-9909, Economics
	GF371-379, Sheep culture
1600	Periodicals, societies, etc.
1601	Yearbooks
1603	Directories
1606	Exhibitions
	Subarranged like TA6
	History
1610	General works
1611	Ancient
1612	Medieval
1614	Modern
1615	Special regions or countries, A-Z
1620	Biography
1625	General works
1626	Elementary works
1627	Spinning and other preliminary processes
1628	Carding. Combing
1629	Weaving
1630	General special
	Including finishing processes, wool sub
1631	Handbooks, tables, calculations, etc.
1635	Artificial wool
	<u>Silk manufactures</u>
	Cf. HD9910-9929, Economics
	SF541-559, Sericulture
1640	Periodicals, societies, congresses, etc.
1641	Yearbooks
1643	Directories
1646	Exhibitions
	Subarranged like TA6
	History
1650	General works
1651	Ancient
1652	Medieval
1654	Modern
1655	Special regions or countries, A-Z
1660	Biography
1665	General works
1669	General special
1671	Handbooks, tables, etc.
1673	Catalogs
1675	Velvets
1680	Plush
1687	Cords, trimmings, passementerie, gimp, brai
	Artificial silk. Rayon. Celanese
1688.A1A-Z	Periodicals, societies, etc.
.A2A-Z	Directories
.A3-Z	General works
	<u>Flax, hemp and jute industries</u>
	Cf. TS1540-1549, Fibers
	TS1784-1787, Cordage
	TS1795, Twine
1700	Periodicals, societies, etc.
1705	General works
1707	Tables, calculations, etc.

Flax industries. Linen, etc.

Cf. ED9930, Economics

History

Special regions or countries, A-Z

General works

Spinning and other preliminaries

Tables, calculations, etc.

Catalogs of linen goods

Hemp industries

Jute industries, Burlap, etc.

Other fiber industries

Special, A-Z

.HC Horsehair

.EB Kapok

.CB Cotton

.RC Raffle

.RB Ramie

.BS Sisal

.ST Straw plaiting

Wire grass, see ECT5

General special

Textile dyes. Dry goods

Cf. TT490-499, Clothing manufacture

Periodicals, societies, etc.

Directories

General works

Catalogs

Knit goods, history, etc., see TT674-695

Carpets, rugs, etc.

Cf. NK2775-2896, Decorative art

Periodicals, societies, etc.

Directories

Exhibitions

Subarranged like TAC

History

General works

Special countries or regions, A-Z

General works

Catalogs, etc.

Rugs

Cf. NE2775-2896, Art

Oriental rugs

Cf. NK2808-2810, Art

Other floor coverings, A-Z

e. g. .G7 Grass rugs

.L5 Linoleum

.M2 Matting. Straw, etc.

.O5 Oil cloth

Carpet measuring, cutting, laying, etc.

Tapestry

Cf. NK2975-3096, Art

TT849, Hand weaving

Miscellaneous textile articles and products

e. g. Bagging, shawls, towels, etc.

For flags, see TS2301.F6

Lace (Machine made)  
Cf. ED9933, Trade  
NK9200-9299, Decorative art  
TT800-805, Needlework  
Braid (Machine made)  
Embroidery (Machine made)  
Cf. NK9200-9299, Decorative art  
TT770-778, Needlework  
Miscellaneous fiber products  
Cordage  
Periodicals, societies, etc.  
Directories  
General works  
Wire rope  
Twine  
Felt  
Nonwoven fabrics  
Other fiber products  
Tent and awning making  
Umbrellas and parasols

### RUBBER INDUSTRY

Cf. HD9161, Economics  
SB289-291, Agriculture

Periodicals, societies, etc.  
Congresses  
Exhibitions  
Subarranged like TA6  
Dictionaries and encyclopedias  
Directories  
History  
General works  
Special countries, A-Z  
General works  
Vulcanizing  
General special. Examination, testing, etc.  
Catalogs and other trade publications  
Rubber boots and shoes  
Rubber tires  
Other articles of rubber  
o. g. Hand stamps, rubber bands, tubes, etc.  
Synthetic rubber  
Gutta-percha  
Balata

### MISCELLANEOUS INDUSTRIES

#### Animal products

Cf. SK283.8, Field dressing and skinning of game  
Periodicals, societies, etc.  
General works  
Butchering. Slaughterhouses. Meat curing  
Technical works only  
Cf. HD9410-9441, Animal industry  
RA578.A6, Slaughterhouses  
Judaism, see EM720.S6  
General works



- Minor works
- Special countries
  - United States
    - States, A-M
    - Cities, A-Z
  - Other countries, A-Z
  - Other cities, A-Z
- Furs, see TS1060-1067
- Leather, see TS940-1047
- Meat-packing industries
  - Cf. HD9410-9440, Economics
- General works
- Special cities, A-Z
- Packhouse equipment, etc.
- Meat inspection
- Lard, tallow, etc.
  - Cf. TP670-676, Oils, fats, and waxes
- Rendering apparatus
- Carriage and wagonmaking
  - Cf. HD9999.C3, Economics
- Periodicals, societies, etc.
- Exhibitions. Museums
  - Subarranged like TA6
- Directories
- History
- General works
- General special
- Carriage painting
  - Scrolls and designs for carriage painting
- Catalogs of carriagemakers
- Carriage hardware
- Automobiles, see TL1-390
- Cereals and grain. Milling industry
  - Including flour
    - Cf. HD9056, Economics
  - Periodicals, societies, etc.
  - Exhibitions
    - Subarranged like TA6
  - Directories
  - History
    - General works
      - By country, A-Z
        - Under each, using two successive columns
          - (1) General works
          - (2) By state, province, etc., A-Z
  - General works
    - Early to 1800
    - 1800-
  - General special
    - e. g. Moisture in grain
  - Catalogs
  - Cereal products
    - Macaroni manufacture. Spaghetti. Vermicelli
    - Feeds and feed mills
    - Milling and processing of individual cereals
      - .C7 Corn
      - .R5 Rice
      - Wheat, see TS2120-2158

- 2169 Cf. HD9947, Economics
- Hats
- 2180 Cf. HD9948, Economics
- 2181 TT650-665, Millinery
- 2182 Periodicals, societies, etc.
- 2185 Exhibitions
- 2193 Subarranged like TA6
- 2193 Directories
- 2193 General works
- 2193 General special
- 2193 Renovating, cleaning, etc.
- Tobacco industry
- 2220 Cf. HD9130-9149, Economics
- 2228 Periodicals, societies, etc.
- 2230 Directories
- 2234 History
- 2235 General works
- 2240 Modern
- 2249 Special places
- General works
- General special
- e. g. Machinery, curing, testing, fact.
- enjoyment of smoking
- 2251 Tables, calculations, etc.
- 2255 Nicotine (Preparation, use, etc.)
- 2260 Cigars and cigarettos
- 2270 Pipes for smoking
- 2280 Smokers' articles, etc.
- Including lighters
- 2283 Catalogs of cigars, smokers' articles, etc.
- 2301 Other industries, A-2
- Mainly catalogs of wares, especially arti
- of any one material
- .A7 Audiovisual equipment
- Phonographs, see .P3
- Sound recording instruments, see .S
- Baggage, see .L8
- .B4 Beads
- Cf. TT860, Beadwork
- .B5 Belts
- .B8 Brushes and brooms
- .B9 Buttons
- .C3 Cane
- .C4 Catgut
- .C5 Church supplies
- Cf. NK1657, Trade catalogs, etc.
- .C75 Combs
- Containers, see TS195-198.8
- .D4 Decalcomania
- (.D7) Dolls, see .T7
- .F4 Feathers
- .F6 Flags, banners, etc.
- .H7 Hose
- Cf. TH9380, Firehose
- .I6 Insignia
- .I8 Isinglass
- .L8 Luggage
- .M3 Marking devices

Other industries, A-Z - Continued

- (.E8) Monuments, tombstones, tablets, etc., see T5788
- .H5 Notions
- .H55 Revolvers
- .P2 Page markers
- .P3 Phonographs
- .P5 Pins and needles
- .H5 Skates
- .H6 Sound recording instruments
  - GF. TR7881.4-9, Electronic sound systems
  - T62306.P5, Phonographs
- .H7 Sporting goods
- .H7 Time stamps
- .H7 Toys, etc.
- .H9 Transfer pictures, etc.
- .H5 Undertakers' supplies, etc.
- .W3 Wax figures
- .W5 Window shades

Building trades, see TH5011-8581  
 Decorative art, see NK  
 Industrial products, see TP, TS

1	Periodicals, societies, etc.
6	Exhibitions. Museums
	Subarranged like TA6
7	Collected works (nonserial)
9	Dictionaries and encyclopedias
12	Directories
126	History and country divisions. Table I <sup>1</sup>
	Biography
139	Collective
140	Individual, A-Z
	General works
144	Early to 1800
145	1800-
149	General special
151	Mending and repairing
	Cf. TH4817, Home maintenance and repair
	TX323, Care of the house
152	Workshops: Planning and maintenance
153	Workshop practice
	Including use of workshop tools
.5	Power tools
154	Models and modelmaking
.5	Radio control systems
155	Handbooks, manuals, etc.
157	Special crafts treated collectively
	Including general works on craft projects and
	Cf. TT180-297, Special crafts, by material
	TT699-850, Textile arts and crafts
	TT855-910, Decorative crafts
	Juvenile works. Projects for boys
	Cf. TT171, Handicraft for girls
159	Periodicals, societies, etc.
160	General works
	Manual training. Industrial arts training. School
	Cf. LB1594-1599, Industrial arts training in e.
	schools
	LC1081, Industrial education (Theory)
	T61-173, Technology - Study and teaching
161	Periodicals, societies, etc.
162	Exhibitions
	Subarranged like TA6
165	Textbooks
166	Special countries, A-Z
167	Special cities, etc.
	Including special schools
	Teaching methods
168	General works
169	General special
171	Handicraft for girls

For Table I see pp. 263-265. Add country number in table to

Cf. TT197.5.C5, Children's furniture

Toys

Soft toys

Other special, A-Z

Dolls

Houses

Furniture

Clothes

Playground equipment

Woodworking

Cf. TT5601-5691, Carpentry and joinery

TS840-903, Manufactures of wood

General works

Elementary works, outlines, syllabi, etc.

Including amateurs' manuals

Sloyd

Special schools, see TT167

Models

Bamboo work

Plywood working

Scroll saw work, see NK9930

Furniture

Cf. TT1185.F8, Plastic furniture manufacture

TS280-389, Furniture manufacture

TT175.5, Doll furniture

TT213, Metal furniture

General works

Amateurs' manuals

Furniture design. Drawings

Box furniture. Cabinetwork

Special, A-Z

.B4 Bedroom furniture

.B6 Bookcases

.B8 Built-in furniture

.C5 Children's furniture

.D4 Desks

.D5 Dining room furniture

.I5 Living room furniture

.L6 Loud-speaker cabinets

.T3 Tables

Upholstering

Repairing. Restoring.

Finishing. Refinishing

Carving and whittling

Cf. NK97C0-9799, Decorative art

General special

e. g. Rustic work

Picture framing, see N8550-8553

Pyrography, see NK8600-8605

Wood staining, see TT345

Lathework. Turning

Cf. TT1215-1220, Machine tools

TS546, Watchmakers' lathes

TT207, Metal turning

Elementary textbooks of woodturning

Ornamental, geometric, eccentric, etc.

- Cf. NK6400-8459, Decorative art  
 TS720-770, Precious metals. Jewelry  
 206 Metal spinning  
 207 Metal turning  
 209 Milling  
 211 Welding  
     Cf. TK4660, Electric welding  
     TS227-228.9, Manufacturing processes  
 213 Special metal products  
     e. g. Home furnishings in metal  
 214 Scrapmetal craft  
 215 Ironworking. Forging  
     Cf. TS225, Manufacturing processes  
     Blacksmithing  
         Cf. SF907, Horseshoeing  
 218 Periodicals, societies, etc.  
 220 General works  
 221 Amateurs' manuals  
 222 Tables, calculations, etc.  
 240 Bent iron work  
     Cf. NK8200-8299, Decorative art  
 242 Aluminum work  
 250 Copperwork  
     Cf. NK8100-8199, Decorative art  
 265 Leadwork  
     Cf. NK8350, Decorative art  
 267 Soldering and brazing  
     Cf. TH6297, Plumbing  
 270 Stencil cutting  
     Cf. NK8650-8669, Decorative stencil work  
 273 Screen process work. Silk-screen printing  
     Serigraphy, see NE2236-2239.7  
 288 Bone and horn craft  
     Cf. NK6020, Decorative art  
     TS1050, Manufactures  
 290 Leatherwork  
     Cf. NK6200-6210, Decorative art  
     TS1030-1043, Manufactures  
 295 Cement work. Plaster of Paris, gypsum, etc.  
 297 Plastic craft  
     Including use of plastic foam

PAINTING, VARNISHING, GILDING, ETC.

- Including industrial painting  
 Cf. ND, Fine arts  
     NK2140-2180, Decorative painting  
     TP934-944, Paint manufacture  
     TS698, Metal painting  
     TS2030, Carriage painting  
 300 Periodicals, societies, etc.  
 301 Collected works (nonserial)  
 303 Directories  
 304 History  
     General works  
 305.A2A-Z Early to 1800  
     .A3-Z 1800-  
 310 Paintmixing  
 315 Spray painting

Painting, varnishing, gilding, etc. - Continued

House painting. Painting of buildings and structures

Cf. TH8001-8581, Decoration of buildings

Interior painting

Including decorative finishes, frescoing

Painters' materials (General)

Cf. TP934-944, Paints manufacture

Wood finishing

Cf. TS386, Furniture manufacturing

TT199.4, Furniture in woodworking craft

Graining and marbling

Varnishing

Wood staining

Sign painting and lettering. Show cards

Cf. RC1800-1850, Posters

Periodicals, societies, etc.

General works

House numbers

Coloring of bone, stone, etc.

Gilding, bronzing, etc.

Metal finishing

Cf. TS653-718, Industrial manufactures

Coloring

Painting and lacquering

Enameling

Gilding, bronzing, silvering

### SOFT HOME FURNISHINGS

Cf. TT198, Upholstering

TT849, Tapestry

TT850, Rugs, carpets, etc.

General works

Curtain making. Drapes

Slipcovers

Bedding

Cf. TX315, House furnishings

Bedspreads

Cf. TT835, Quilts

Blankets

Sheets

Pillow cases

Pillows and cushions

### CLOTHING MANUFACTURE

Including the garment industry

Periodicals, societies, etc.

Directories

General works

Clothing factories

Tables, calculations, etc.

Dressmaking and women's tailoring. Fashion

Cf. GT500-2370, History of dress and costume

History and criticism of periodicals

Periodicals and societies. Fashion magazines

Cf. PN4784.F33, Journalism

Fashion shows, exhibitions, etc.

- 503 Dictionaries and encyclopedias  
 Directories, see TT495
- 504 History of dressmaking and tailoring  
 Special countries  
     .4 United States  
     .6 Other countries, A-Z  
 Biography  
     Collective  
     Individual, A-Z  
         e. g. .P6 Poiret  
             .W6 Worth
- 506 Pictorial works
- 507 Art of dress. Theory. Aesthetics. Costume c
- 508 Study and teaching
- 509 Fashion drawing  
 General works  
     Early to 1800  
     1800-  
     Textbooks
- 510 Addresses, essays, lectures
- 511 Women's tailoring  
     .5 Patternmaking and design  
         Including cutting, drafting, measuring a
- 520 Blank forms
- 522 Fur garments
- 525 Coats and capes
- 530 Jackets
- 535 Skirts
- 540 Slacks. Trousers  
     For men's slacks, or men's and women's sl
- 545 Blouses
- 550 Alterations. Restyling
- 552 Trimming
- 555 Catalogs and price lists
- 556 Catalogs of patterns  
     For catalogs issued periodically, see T
- 557 Special fabrics and materials  
     e. g. Buttons, zippers, lining
- 560 General special
- 562 Clothing for girls
- 565 Dress reform
- Tailoring. Men's clothing  
     Periodicals, societies, etc.
- 570 Tailoring
- 572 Furnishing goods, etc.
- Directories, see TT495
- 574 Dictionaries and encyclopedias  
Tailoring  
     General works  
         Early to 1800  
         1800-  
         Repairing, pressing, etc.  
         General special  
         Patternmaking and design  
             Including cutting, drafting, measuring,
- 593 Study and teaching
- 595 Coats
- 600 Overcoats
- 603 Sleeves



Tailoring. Men's clothing

Tailoring - Continued

Trousers. Slacks

Breeches

Vests

Men's fashions

Correct dress

Catalogs and pricelists

General works

Uniforms

Livery

Furnishings

Sample books

Clothing for boys

Children's clothing

Cf. TT562, Clothing for girls

General works

Baby clothes. Layettes

Patterns, etc.

Catalogs and pricelists

Ecclesiastical vestments

Cf. BV167, Religion

BX1925, 2790, 5180, etc., Religion

NK4850, Art industries

Other special types of clothing

e. g. Work clothes, sport clothes

Millinery

Cf. TS2180-2193, Hnts

Periodicals, societies, etc.

Biography

Collective

Individual, A-Z

General works

General special

Illustrations and styles

Catalogs and pricelists

Underwear. Lingerie

General works

Special

Undershirts

Foundation garments

Including, corsets, girdles, brassieres, etc.

Other special

Knit goods, hosiery, sweaters, etc. Machine knit

Cf. TS2160, Gloves

TT820-829, Hand knitting and crocheting

Periodicals, societies, etc.

Dictionaries and encyclopedias

General works

Hosiery

Other special

Trade publications

Knitting and crocheting machinery

Domestic machines

Knit goods specifications

General special

Directories

1A-A-Z

12-Z

5

- 697 Periodicals, societies, etc.  
 698 General works  
 699 Textile arts and crafts  
     Cf. TT387-410, Soft home furnishings  
     TT490-695, Clothing manufacture  
     Sewing. Needlework  
         Cf. TT845, Needlework tools  
 700 Periodicals, societies, etc.  
 705 General works  
 708 Study and teaching  
 710 Textbooks  
 712 Juvenile works  
 713 Sewing by machine  
     Cf. TJ1501-1519, Sewing machine construction  
 715 General special  
 720 Mending  
 730 Darning  
     Decorative needlework. Fancy work  
         Cf. NK9100-9499, Decorative work  
 740 Periodicals, societies, etc.  
 750 General works  
 751 General special  
 753 Patterns  
 755 Stamping  
 760 Stitches  
     Embroidery  
         Cf. NK9200-9315, Decorative art  
         TS1783, Manufacture  
 770 General works  
 771 General patterns  
 772 Sewing-machine work  
 773 Classes of designs  
     e. g. Alphabets, birds, flowers  
 775 Articles embroidered  
     e. g. Doilies, table covers  
 777 Materials  
     e. g. Embroidery silk, gold thread  
 778 Types of embroidery, A-Z  
     .C7 Crewelwork  
 779 Appliqué  
 785 Drawnwork  
     Special kinds  
 787 Hardanger  
 791 Other, A-Z  
 800 Lacemaking  
     Cf. NK9400-9499  
     TS1782, Manufacture  
 805 Special laces  
     e. g. Irish  
     Knitting and crocheting  
         Cf. TT679-695  
 820 General works  
 825 Shawls, sweaters,  
 829 Toy-knitting. Sp



Cf. T7775, Appliqué  
 Other kinds of fancy work  
   e. g. Netting, smocking, macramé, tatting  
 Tools and supplies  
   Including catalogs  
 Hand weaving  
   Including hand weaving not requiring looms, e. g.  
   weaving  
 Cf. T21490, Industrial weaving  
 Tapestry  
   Cf. BK3975-3996, Decorative art  
   T7780, Machine-made tapestry  
 Hand-made rugs, carpets, etc.  
Decorative crafts  
 Periodicals, societies, etc.  
 General works  
 Bookwork  
   Cf. BK3650, Decorative art  
   TD301.B4, Manufactures  
 Shellcraft  
 Paperwork  
   Including the use of cardboard, corrugated paper  
   Cf. T7892, Paper flowers  
   Papier-mâché craft  
   Cf. B1155, Manufactures  
Vegetable-fiber work  
   Pine needle crafts  
   Raffia and bark work  
   Cf. JBL543, Primary education  
   Straw work  
   Rush work  
   Cornhusk craft  
   Special articles, A-Z  
   .B3 Baskets  
     Cf. T7910, Industrial basketmaking  
 Work in miscellaneous materials  
   e. g. Felt, string, braid  
Fancy articles  
   Artificial flowers  
   Paper flowers  
   Wax flowers  
   Artificial fruits  
   Candles  
     Cf. TP993, Chemical technology of candles  
   Lampshades  
 Decorations for special events, A-Z  
   .C4 Christmas  
   .P3 Parties  
 Other special techniques  
   Collage  
     Cf. TR685, Composite photography

Including beauty shop practice

Periodicals, societies, collections, etc.

Dictionaries and encyclopedias

Documents

United States

States, A-W

Other countries, A-Z

Directories

Biography

A-Z Collective

-Z Individual, A-Z

General works

Before 1800

1800-

General special

e. g. Vocational guidance

Barbers' manuals

Hair styles for men

Shop management

Equipment and supplies

Catalogs, see TP979

Razors

Other special

Materials

Dyes, oils, soaps, etc.

Haircutting, shaving, etc.

Study and teaching

Hairdressing for women

Hair tinting and bleaching

Hairwork

Braids, wigs, toupées, etc.

Ornaments, jewelry, etc.

Receipts for barbers

Catalogs of equipment and supplies

### LAUNDRY WORK

Cf. TP932, Dry cleaning

Periodicals, societies, etc.

Directories

General and domestic

Commercial. Steam-laundry work

Blueing and bleaching

Starching

Ironing

Materials. Machinery

General special

Catalogs, etc.

Collected works of individual authors  
Minor collections: Papers, essays, etc.

Dictionaries and encyclopedias

Theory. Philosophy

History and antiquities

Including manners and customs, gastronomy, etc.

cf. GP, Manners and customs - General

For modern works on gastronomy, see TX631-641

General works

Ancient

Medieval

17-18th centuries

19th-20th centuries

Special countries. Table I<sup>1</sup>

Biography

Collective

Individual, A-Z

General works

Early to 1800

1800-

Textbooks, see TX167

General special

e. g. Economics of daily life for men, institutional  
administration

Juvenile works

Household science (Chemistry, physics, etc.)

Home accidents and their prevention

Pocketbooks, tables, receipts, etc.

Household economics emphasized

16th-18th century

19th century

American

English

French

German

Other (not A-Z)

20th century

American

English

French

German

Other (not A-Z)

Home economics as a profession

Study and teaching

Periodicals, societies, etc.

General works

Textbooks

Examinations, questions, etc.

Special countries. Table I<sup>1</sup>

I, see pp. 263-265. Add country number in table to 0 or 150

Cf. TX656-657, Kitchen utensils

Catalogs

The house

Cf. NA7120, Domestic architecture - Popular works

TH4805-4850, House construction

TX653-655, Kitchens

TX855-859, Dining rooms

General works

General special

Location

General works

General special

Arrangement

Furnishing

Cf. TT287-410, Soft home furnishings (Handicrafts)

General works

General special

e. g. Sheets and pillowcases

Decoration and ornament, see NX1700-3505, Decoration

Administration

Care of the house

Cf. TH2528, Flooring

TH4817, Maintenance and repair of the

Cleaning

Including silver cleaning

Household pests

Cf. RA639-641, Insects and disease

SB821-945, Economic entomology

SB993-1100, Noxious and useful animals

TA423.7, Termite control

Finance, budgets, bookkeeping, accounts

Early works, see TX17-18

Cf. HD6977-7080, Cost of living

Servants

General works

General special. Morals, conduct, etc.

Shopping. Consumer education

Cf. TX356, Marketing for food

Janitor service

Cf. LB3235, Schoolhouse service

TX957-958, Apartment house service

Clothing

Cf. TT490-695, Clothing manufacture

TT700-730, Sewing

TT980-999, Laundry work

Periodicals, societies, etc. Food research instit

Cf. PN4784.F55, Journalism

Grocery trade periodicals

Periodicals relating to adulteration and inspect  
Congresses

Directories of grocers, see HD9320-9330

Exhibitions. Pure food shows, etc.

Subarranged like TAc

Dictionaries and encyclopedias

Including dictionaries of cookery

Bilingual and polyglot

General works. Sources, supply, etc.

Early to 1800

1800-

Textbooks

Grocers' catalogs

Popular works. Juvenile works

Cf. TX149, Household science

TX533, Food adulteration, etc.

Marketing for food. Economy. Thrift

General special

e. g. Dietitians, food economy in war time

Diet and food supply of special countries. By cou

e. g. .U6 United States

.U7 States, A-W

Diet and nutrition of special classes and groups,

e. g. .A3 Aged

.A4 Agricultural laborers

.A8 Athletes

.C5 Children

.C6 College students

.M5 Miners

.W6 Workers

.W7 Working women

.Y6 Youth

Study and teaching

General works

Special schools, A-Z

Markets, see HF5470-5481

Grocery business, see HF6201.G7-73

Animal foods

Cf. TS1950-1981, Butchering, packinghouse indu

TS1975, Meat inspection

Butchers' meats

Poultry and game

Cf. SF481-510, Poultry culture

Dairy foods

Cf. SF221-275, Dairying

Milk

Butter

Choose

Eggs

Cf. SF481-510, Poultry culture



- 387 Cf. SH, Fisheries  
Shellfish  
Cf. SH365-380.9, Fisheries  
SH380-380.2, Lobster fisheries
- 388 Other natural products, A-Z  
.I5 Insects  
.T8 Turtles  
.W4 Whales
- 389 Prepared foods, meat extracts, etc.  
Including trade publications
- 391 Vegetable foods  
Vegetarianism  
Cf. TX837, Cookery  
Periodicals, societies, etc.  
General works
- 392.A1-4  
.A5-Z  
393 Cereals  
394 Bread  
395 Prepared cereals  
Including trade publications
- 396 Flowers  
397 Fruits  
399 Nuts  
401 Vegetables  
Condiments, spices, etc.  
General works  
Special, A-Z  
Baking powders, etc.
- 412 Beverages  
Cf. TP620-655, Chemical technology  
Tea, coffee, cocoa, etc.
- 415 Examination and analysis. Composition. Adulteration.  
Foods and public health, see RA601-602  
Meat inspection, see TS1975
- 501 Periodicals, societies, etc.  
Relating to adulteration and inspection  
Cf. TX341, Nutrition
- 511 Congresses  
Pure food congresses, see HD9000.9
- 515 History  
Biography  
Collective  
Individual, A-Z  
e. g. .W5 Wiley, H. W.
- 531 General works  
533 Popular works  
535 General special. Pamphlets  
537 Food standards, etc.  
Analysis (Methods)  
General works  
Microscopic  
Chemical
- Dietary studies, food values, experiments,  
Cf. RM214-258, Therapeutics  
TX341-641, Food supply  
TX361, Foods for special classes
- 551 General works  
552 Canned foods

## Special constituents, A-Z

- .A3 Additives
- .A5 Amino acids
- .A7 Antibiotics
- .A8 Ascorbic acid
- .C28 Carbohydrates
- .C3 Carotinoids
- .E6 Enzymes
- .L5 Lipids
- .P4 Pectic substances
- .P7 Proteins
- .V5 Vitamins

## Special foods

## Animal foods

## Special, A-Z

- .B4 Beef
- .E4 Eggs
- .L3 Lamb
- .K4 Meat
- .F5 Milk and milk products
- .P6 Pigeons
- .P8 Pork
- .P9 Poultry
- .V4 Venison

## Fish. Seafood

## Vegetables, cereals, fruits, etc.

## Special, A-Z

- .A3 Acorns
- .A6 Apples
- .B3 Bananas
- .B35 Barley
- .B4 Beans
- .B6 Bran
- .B7 Bread
- .C2 Cabbage
- .C4 Chick-pea
- .C5 Citrus fruits
- .C6 Cow pea
- .D3 Dashoon
- .D35 Date
- Flour, see .W5
- .F7 Fruit (General)
- .G6 Grapes
- .H2 Hay
- .L4 Legumes (General)
- .L5 Lemon
- .L6 Logan blackberry
- .M2 Maize. Corn, cornmeal
- .M5 Millet
- .K9 Mushrooms and other fungi
- .N8 Nuts
- .O7 Orange
- .P3 Peaches
- .P35 Peas
- .P8 Potato
- .R4 Rhubarb
- .R5 Rice
- .R9 Rye

Nutrition. Foods and food supply.

Examination and analysis. Composition. Adulteration.

Dietary studies, food values, experiments, toxicology.

Special foods

Vegetables, cereals, fruits, etc.

Special, A-Z - Continued

- .S6 Sorghum
- .S7 Soybean
- .S75 Sprouts
- .S8 Starches
- .T6 Tomato
- .V4 Vegetable juices
- .W5 Wheat. Flour

Miscellaneous products

General works

Special, A-Z

- .A3 Alcohol
- .B8 Bread
- .C2 Cacao
- Cocoa-butter, see TP684.C2
- .C65 Confectionery
- .C7 Cottonseed products
- .F3 Fats (Animal and vegetable)
- .H7 Honey
- .M2 Macaroni
- .M3 Maple sugar. Maple syrup
- .M35 Mato (Toa)
- .N7 Nut oils
- .O3 Oils (General)
- .O4 Olive oil
- .P6 Pollen
- .S4 Seed oils
- .S9 Sugar
- .Y4 Yeast

Adulterants and adulteration, impurities, etc.

Cf. QP901-981, Physiological effects of chemicals

RA601-602, Public hygiene - Foods

General works, see TX531.-535

Detection of adulterants

Microscopic analysis

Chemical analysis

Special adulterants and impurities

By classes, A-Z

Cf. TX607-608, Preservatives

- .C7 Coloring matter
- .G3 Gases, Asphyxiating and poisonous
- .P4 Pesticide residues
- .R3 Radioactivity
- .S9 Sweeteners, Artificial

By chemical composition, A-Z

- e. g. .S9 Sulphurous acid
- .T6 Tin

Special foods

Including methods of analysis

Coffee

Tea

Milk, see SF254-256

Spices

Special, A-Z

Flavoring extracts

- 595 Other foods, A-Z  
e. g. .F5 Flour
- 596 Beverages
- 597 Alcoholic beverages  
Cf. TP612, Compounding
- Preservation and storage of foods  
Cf. RA601-602, Public hygiene - Foods  
SP957, Storage pests
- 599 Periodicals, societies, yearbooks, etc.  
Cf. HD9320-9330, Grocery trade
- 600 Directories
- 601 General works
- 602 Study and teaching. Research
- 603 Canning, etc.  
Cold storage, see TP493-493.2
- 607 Chemical treatment. Preservatives  
Cf. QP981.P8, Physiological effect
- 608 Individual preservatives, A-Z  
.A5 Antibiotics  
.S2 Salicylic acid  
.S6 Sorbic acid
- 609 Drying, smoking, etc.
- 610 Freezing. Home methods  
Cf. TP493.5, Commercial methods
- 611 Sterilizing  
.5 Radiation sterilization
- 612 Special foods and condiments, A-Z  
.A6 Apples  
.A65 Apricots  
.A7 Asparagus  
.B4 Berries  
.C3 Cabbage  
.C4 Cheese  
.C5 Cherries  
.C57 Citrus fruits  
.C6 Corn. Maize  
.C7 Crabs  
.C8 Cucumbers  
.E4 Eggs  
.F5 Fish (General)  
.F7 Fruit (General)  
.G5 Ginger  
.H4 Herring  
.J3 Jam  
.J4 Jolly  
.L7 Lobster  
.M3 Mackorel  
.M4 Meats (General)  
.M8 Mushrooms  
.O6 Olives  
.O9 Oysters  
.P4 Peaches  
.P5 Peas  
.P6 Pineapples  
.P7 Potatoes  
.P8 Prunes  
.S4 Salmon

Preservation and storage of foods

- 612 Special foods and condiments, A-Z - Conti.  
    .S43 Sardines  
    .S45 Sauerkraut  
    .S5 Shellfish (General)  
    .S58 Soups  
    .S6 Spinach  
    .T7 Tomatoes  
    Trade publications, catalogs, etc.  
631 Gastronomy, pleasures of the table, dining,  
633 American  
635 English  
637 French  
639 German  
641 Other (not A-Z)

COOKERY

- Periodicals, see TX1  
Dictionaries and encyclopedias, see TX349-350  
645 History  
    Biography  
649.A1A-Z Collective  
    .A2-Z Individual, A-Z  
General works  
651 Treatises  
652 General special  
    e. g. Bachelor cookery, garnishes  
    .5 Juvenile works  
    .7 Minor works, tables, etc.  
    .9 Essays, lectures, etc.  
653 Kitchen  
655 Arrangement  
656 Equipment, appliances, utensils, etc.  
657 Special, A-Z  
    .C7 Cookers  
    .D6 Dishwashing machines  
    .F7 Fryers  
    .K4 Kettles  
        Ovens  
    .O6 Gas  
    .P6 Potato peeling machines  
        Stoves and ranges  
            Cf. TS425, Stove manufacture  
    .S3 General  
    .S4 Coal  
    .S5 Electric  
    .S6 Gas  
    .S7 Gasoline  
    .S8 Oil  
        Toasters  
    .T6 Gas  
    Chafing dishes, see TX825  
    Fireless cookers, see TX831  
658 Catalogs of miscellaneous articles  
Study and teaching  
661 General works  
663 Textbooks, etc.

- 667 Special schools
- 669 American
- 681 Other countries, A-Z
- 683 Cooking processes
- 685 Baking
- 687 Boiling
- 689 Broiling
- 691 Frying
- 693 Steaming
- 693 Stewing. Cooking en casserole
- Cookbooks
- Early to 1800
- 703 American. Canadian
- 705 English
- 707 French
- 709 German
- 711 Italian
- 713 Other (not A-Z)
- 1800-
- International, see TX725.A1
- 715 American. Canadian
- Cf. TX724.5.H3, Hawaiian
- French, German, etc., cookbooks publ.
- see TX719, 721, etc.
- 716 Latin American
- .A1A-Z General works
- .A3-Z By country, A-Z
- 717 English
- .3 Scottish
- .5 Irish
- 719 French
- 721 German. Austrian
- Including Pennsylvania-Dutch cookbooks
- 722 Scandinavian
- .A1A-Z General works
- .A3-Z By country, A-Z
- 723 Italian
- Russian
- .3 European
- .4 Asiatic
- Including Caucasian
- .5 Other European
- .A1A-Z General works
- .A3-Z By country, A-Z
- 724 Jewish
- .5 Oriental
- Asiatic Russian, see TX723.4
- .A1A-Z General works
- .A3-Z By country or area, A-Z
- e. g. .H3 Hawaiian
- 725 Other
- .A1A-Z International
- .A3-Z By country, A-Z
- Cookery using alcoholic beverages
- 726 Wino. Liquors
- .3 Beer

- 727 Early to 1800  
 728 1800-  
 731 Entertaining, dinner-giving, etc.  
     For entertaining in which food is :  
     Special meats  
 733 Breakfasts  
 735 Luncheons  
 737 Dinners  
 738 Suppers  
 739 Special occasions  
 740 Miscellaneous recipes. Canapés, hors-d'  
     For vegetable salads, see TX807  
 743 Animal foods  
 745 Eggs  
 747 Fish. Seafood  
 749 Meat  
 751 Game  
 753 Shellfish  
 757 Soups  
 759 Dairy products  
Baking. Confectionery  
 761 Periodicals, societies, etc.  
 763 General works  
 765 Minor works, recipe books, etc.  
 767 Recipes for special food products, A-Z  
     .C5 Chocolate  
     .M3 Maple sugar and syrup  
 769 Broad. Biscuits. Crackers  
 770 General special  
     e. g. Pretzels  
 771 Cake  
 772 Cookies  
 773 Desserts, pies, and puddings. Pastry  
 775 Directories of bakers, etc.  
 776 Bakers' trade publications  
 778 Bakers' and confectioners' supplies  
     Including catalogs  
     Confectionery  
     Periodicals, see TX761  
 783 General works  
     Candy  
 784 History of candy manufacture  
 791 General works  
 793 Candymakers' tools, etc.  
     Desserts, see TX773  
     Ice creams and ices  
 795.A1A-Z Periodicals, societies, etc.  
     .A2-Z General works  
 799 General special  
     o. g. Popcorn  
 801 Vegetables (Preparation)  
     Cf. TX392, Vegetarianism  
 803 Special vegetables, A-Z  
     .A7 Artichokes  
     .L4 Leeks  
     .P35 Peanuts  
     .P4 Peas  
     .P8 Potatoes

804	Mushrooms
805	Pickles
807	Salads
	<u>Cereals (Preparation)</u>
808.A1A-Z	Periodicals, societies, etc.
.A2-Z	General works
809	Special, A-Z
	Cf. TX395, Prepared cereals
	TX803, Special vegetables
	.B8 Buckwheat
	.M17 Macaroni
	.M2 Maize. Corn
	.R5 Rice
811	<u>Fruits (Preparation)</u>
813	Special fruits, A-Z
	.A6 Apples
	.A64 Apricots
	.A9 Avocados
	.B4 Berries
	.C5 Citrus fruits
	.C7 Cranberries
	.D3 Dates
	.F5 Figs
	.I4 Lexons
	.O4 Olives
	.O6 Oranges
	.P5 Pineapples
	.R6 Rosolles
	.S7 Strawberries
814	<u>Nuts (Preparation)</u>
.5	Other, A-Z
	.F5 Flowers
	.R6 Noses
	<u>Beverages</u>
	Cf. TP500-659, Technology
	TX951, Bartenders' manuals
815	General works
817	Special beverages, A-Z
	e. g. .C4 Chocolate
	.C5 Cocoa
	.C6 Coffee
	.T3 Tea
818	<u>Sandwiches</u>
	<u>Condiments, sauces, etc.</u>
819.A1A-Z	General works
.A3-Z	Special, A-Z
	Cf. TX740, Canapés, hors d'oeuvres,
	TX805, Pickles
	.C6 Coffee (as a flavor)
	.C9 Curry
	.G3 Garlic
	.G55 Glutamate
	.H4 Herbs
	.M3 Mayonnaise
	.O4 Olive butter
	.S8 Stocks
	.V5 Vinegar
	.W5 White sauce



- 320 Cookery for large numbers. Institutional cook  
     Communal kitchens, see TX946  
 Other special varieties of cookery  
     Army, see UC720-780, UH487  
     Canned foods, etc.  
     Camp and picnic. Outdoor cookery  
     Chafing dish  
     Cold-storage foods  
     Cookery for the sick, see RM219-221  
     Diabetic cookery, see RC662  
 827 Electric cooking  
     Cf. TX657.S5, Electric stoves  
     TX832, Microwave cookery  
     Fast day, see TX837  
 828 Frozen food  
 829 Hot weather  
 830 Cold dishes  
 831 Fireless cookers. Hayboxes, etc.  
 832 Microwave cookery  
     Navy, see VC350-410  
     Paper-bag cookery  
 833 Vegetarian. Lenten. Fast day  
 837 Cf. TX391-401, Vegetables  
     Meat substitutes  
 838 Other special, A-Z  
 840 .B3 Barbecue cookery  
     .B5 Blender recipes  
     .M6 Mobile home cookery  
     .M7 Motorboat cookery  
     .P7 Pressure cooker recipes  
     Trailer cookery, see .M6
- 851 Dining-room service  
 855 Dining room  
 857 Arrangement  
 859 Decoration  
 871 Table  
 873 Arrangement  
 877 Furnishings  
 879 Decoration  
 881 Serving  
 885 Carving
- Hotels, clubs, restaurants, etc. Food service  
     Cf. GT3770-3899, Manners and customs  
     NA7800-7977, Architecture
- 901 Periodicals, societies, etc.  
 905 Dictionaries and encyclopedias  
 907 Directories  
     History  
         General works  
         Special countries  
 909 United States  
 910 Other countries, A-Z  
     .A1 Europe  
     Special hotels, see TX941  
     Special restaurants, see TX945.5
- Biography  
     .3 Collective  
     .5 Individual, A-Z  
 911 General works  
     .2 General special

3 Special topics, A-Z  
     .C6 Commercial correspondence  
     .F5 Finance  
     .L3 Labor turnover  
     .P8 Purchasing  
     .S8 Stockroom keeping  
 5 Study and teaching  
     Furnishing, equipment, etc. Housekeeping  
     Law and legislation. Inspectors' reports  
     General works  
     United States  
 A1-3 Federal  
 A5 States collectively  
     States, A-W  
         Under each:  
             (1) Collections, codes, etc.  
             (2) Separate acts  
             (3) General works  
     Other countries, A-Z  
         Under each:  
             (1) Collections, codes, etc.  
             (2) Separate acts  
             (3) General works  
     Stewards' manuals. Caterers' manuals. Kitchen c  
     Waiters' manuals  
     Hollmen, doormen, elevator operators  
     Housekeepers' manuals  
     Social executives, hostesses, etc.  
     General special  
         o. g. Youth hostels  
     Special hotels and hotel chains. By name, A-Z  
     Food service  
         Restaurants, cafeterias, tearooms, etc.  
         Cf. TP635, Soda fountains  
 5 Special restaurants. By name, A-Z  
     Mass feeding, communal kitchens, canteens, etc.  
 5 Industrial feeding. Factory canteens  
     .A1A-Z Periodicals, collections, congresses  
     .A3-Z General works  
Taverns, barrooms, saloons  
     Periodicals, societies, etc.  
 5 Biography of bartenders, saloonkeepers, etc.  
     .A1A-Z Collective  
     .A2-Z Individual, A-Z  
 7 General works  
     Bartenders' manuals and recipes  
     Furnishings, equipment, etc. Housekeeping  
     Bars and bar supplies  
Building operation and housekeeping  
     Apartment houses  
         Janitor service  
             Cf. TX339, Household janitor service  
         Other services  
             Elevator service, etc.  
     Housing developments  
     Office buildings  
     Public buildings  
Mobilo home living  
     Periodicals, collections, etc.  
     General works

## TABLES OF SUBDIVISIONS

# HISTORY AND COUNTRY DIVISIONS

## History

General works

Ancient

Medieval

Modern

19th century

20th century

Special countries

Under each country with two numbers:

(1) General works

(2) Local or special, A-Z

The numbers for "Cities or other special," "Local special," "Provinces or special" may be used in cases for the local subdivision, in other cases for special canals, rivers, harbors, railroads, as specified in the particular scheme to which is applied

Under both general and local subdivisions arranged as follows:

.A1-5 Official documents

.A6-Z Nonofficial. By author, A-Z

e. g. TD257.A5, 1966, Great Britain. Water Resources  
Water supplies in South East England  
TD264.T5P6, 1967, Port of London Authority.  
cleaner Thames.

TD224.C3A53, 1963, California. Dept of  
Resources. Alameda County investigation

## America

North America

United States

Eastern states. Atlantic coast

New England

Appalachian region

Great Lakes region

Midwest. Mississippi Valley

South. Gulf states

West

Northwest

Pacific coast

Southwest

States, A-W

e. g. .A4 Alaska

.H3 Hawaii

Cities (or other special), A-Z

Canada

Provinces (or other special), A-Z

Latin America

Mexico

Central America

Special countries, A-Z

32	Special islands, A-Z
33	
34	South America
36-37	Argentine Republic
38-39	Bolivia
41-42	Brazil
43-44	Chile
45-46	Colombia
47	Ecuador
48	Guyana
49	Surinam
50	French Guiana
51	Paraguay
52	Peru
53	Uruguay
54	Venezuela
55	Europe
57	Great Britain. England
58	English counties or regions, A-Z
59	Ireland
.2	Irish Free State. Ireland (Eire)
.3	Northern Ireland
60	Special counties, A-Z
61	Scotland
62	Special counties, A-Z
63	Wales
64	Cities (or other special), A-Z
.5	Colonies (Collectively)
65	Austria. Austria-Hungary
.2	Local, or special, A-Z
.3	Czechoslovak Republic
.4	Local, or special, A-Z
.5	Hungary
.9	Special counties, A-Z
66	Cities (or other special), A-Z
67-68	Belgium
69-70	Denmark
71-72	France
72.5	Colonies (Collectively)
73	Germany
.1	East Germany. Democratic Republic (19
.2	Baden-Württemberg
.3	Bavaria
.4	Hesse
.5	Prussia
.6	Saxony
.7	North Rhine-Westphalia
.9	Other states, A-Z
74	Cities (or other special), A-Z
.5	Colonies (Collectively)
75-76	Greece
77-78	Netherlands
79-80	Italy
80.5	Malta
81-82	Norway
83-84	Portugal, Azores, etc.
84.5	Colonies (Collectively)
85-86	Russia in Europe

Other regions and countries, A-Z  
e. g. .A2 Balkan Peninsula  
.F5 Finland  
.P7 Poland  
.R6 Romania  
.S5 Serbia  
.Y8 Yugoslavia

Asia

China

India

Pakistan

Ceylon

Japan

Iran. Persia

Russia in Asia. Siberia

Turkey. Asia Minor

Other divisions of Asia, A-Z

e. g. .I55 Indonesia

.I7 Iraq

.I75 Israel

.P6 Philippine Islands

Africa

Egypt

Other divisions of Africa, A-Z

Australia

New Zealand

Local or special, A-Z

Pacific islands

Under T323:

.A1A-Z General works

.A5-Z Special islands, A-Z

Arctic regions

Antarctic regions

The numbers in this list are intended to be used as a guide for the best distribution of numbers and not necessarily as a fixed standard. Considerable latitude may be used in cases where the countries are arranged in continental groups

Abyssinia, see Ethiopia  
 Afghanistan----- .A3  
 Africa, South----- .A35  
 Algeria----- .A4  
 Argentine Republic----- .A7  
 Australia----- .A8  
 Austria----- .A9  
 Belgium----- .B4  
 Bolivia----- .B5  
 Brazil----- .B6  
 British Guiana, see .C95----- (.B7)  
 British Honduras----- .B8  
 Bulgaria----- .B9  
 Canada----- .C2  
 Chile----- .C5  
 China----- .C6  
 Colombia----- .C7  
 Costa Rica----- .C8  
 Cuba----- .C9  
 Czechoslovak Republic----- .C95  
 Denmark----- .D4  
 Dutch East Indies, see .I5  
 Dutch Guiana, see .S75----- (.D8)  
 Ecuador----- .E2  
 Egypt----- .E3  
 Ethiopia----- .E8  
 Formosa----- .F6  
 France----- .F8  
 French Guiana----- .F9  
 Germany. Federal Republic--- .G3  
 Democratic Republic----- .G35  
 Ghana (Gold Coast)----- .G4  
 Great Britain----- .G7  
 Greece----- .G8  
 Guatemala----- .G9  
 Guyana----- .G95  
 Haiti----- .H2  
 Holland, see .N4----- (.H7)  
 Honduras----- .H8

Iceland-----  
 India-----  
 Indonesia-----  
 Iran-----  
 Israel-----  
 Italy-----  
 Japan-----  
 Korea-----  
 Liberia-----  
 Luxembourg-----  
 Malawi-----  
 Mexico-----  
 Morocco-----  
 Netherlands-----  
 Nicaragua-----  
 Northern Rhodesia, see .Z  
 Norway-----  
 Nyasaland, see .M3  
 Palestine, see .I75  
 Panama-----  
 Paraguay-----  
 Persia, see .I7-----  
 Peru-----  
 Philippine Islands-----  
 Poland-----  
 Portugal-----  
 Romania-----  
 Russia-----  
 Salvador-----  
 Santo Domingo-----  
 Serbia-----  
 Siam, see .T5-----  
 South Africa, see .A35  
 Spain-----  
 Surinam-----  
 Sweden-----  
 Switzerland-----

Uruguay-----	.U8
United States-----	.U6
Turkey-----	.T9

Zambia-----

TABLE III

UNITED STATES

Alabama-----	.A2	Missouri-----
Alaska-----	.A4	Montana-----
Arizona-----	.A6	Nebraska-----
Arkansas-----	.A8	Nevada-----
California-----	.C2	New Hampshire-----
Colorado-----	.C6	New Jersey-----
Connecticut-----	.C8	New Mexico-----
Dakota (Territory)-----	.D2	New York-----
Delaware-----	.D3	North Carolina-----
District of Columbia-----	.D6	North Dakota-----
Florida-----	.F6	Ohio-----
Georgia-----	.G4	Oklahoma-----
Hawaii-----	.H2	Oregon-----
Idaho-----	.I2	Pennsylvania-----
Illinois-----	.I3	Rhode Island-----
Indian Territory-----	.I4	South Carolina-----
Indiana-----	.I6	South Dakota-----
Iowa-----	.I8	Tennessee-----
Kansas-----	.K2	Texas-----
Kentucky-----	.K4	Utah-----
Louisiana-----	.L8	Vermont-----
Maine-----	.M2	Virginia-----
Maryland-----	.M3	Washington-----
Massachusetts-----	.M4	West Virginia-----
Michigan-----	.M5	Wisconsin-----
Minnesota-----	.M6	Wyoming-----
Mississippi-----	.M7	

TABLE IV

CANADA AND NEWFOUNDLAND - LIST OF PROVINCES

The numbers below are intended for use in cases where special numbers are assigned to Canada, as TA26, TN26, etc. Where countries are given in one alphabet Canadian provinces are to be arranged in a second alphabet under Canada, o. Iron mines of British Columbia, TN/C4.C4B6-9

Alberta-----	.A3	Newfoundland-----
Assiniboia-----	.A6	Northwest Territories-----
Athabasca-----	.A8	Nova Scotia-----
British Columbia-----	.B8	Ontario-----
Franklin-----	.F8	Prince Edward Island-----
Keewatin-----	.K3	Quebec-----
Labrador-----	.L2	Saskatchewan-----
Mackenzie-----	.M2	Ungava-----
Manitoba-----	.M3	Yukon-----
New Brunswick-----	.N5	





C. transforming machinery:  
 274  
 C. transforming machinery:  
 2748  
 er control systems (Mechanical  
 ring): TJ218  
 sformers: TK2792  
 traffic control: TL696.A25  
 , see Slaughtering and  
 erhouses  
 ions, see Symbols and abbrevi-  
 s  
 machinery (Mechanical engi-  
 ): TJ1280-1298  
 (Aircraft propellers): TL706.A2  
 ring material: TA455.A3  
 cal engineering: TJ1296-1298  
 engineering: TN936  
 n of gases (Chemical engineer-  
 TL56.A3  
 photography: TR696  
 engineering: TG325  
 g construction: TH2255  
 eter (Aeronautical instrument):  
 2.A3  
 e sampling (Production manage-  
 TL56.4  
 airports: TL725.3.A2  
 ics: TL553.5  
 s: HE9784-9784.5  
 autias: TL867  
 files: HE5614-5614.5  
 s: TG470  
 TL150  
 rial accidents (General):  
 55.3  
 urgical plants: TN676  
 : TN311-319  
 ehicles: HE5614-5614.5  
 es: TN311-319  
 ads: HE1779-1783  
 pathology: HV675-677  
so Safety measures  
 ng for engineers: TA185  
 ng machines, Electric: TK4100-  
 tors, see Storage batteries  
 tors, Steam (Steam boilers):  
 esins (Plastics manufacture):  
 .A33  
 silk, see Artificial silk  
 (Chemical technology): TP248.A2  
 e industry: TP765-770  
 nic chemicals: TP213-217  
 ic chemicals: TP247.2

Acoustic systems and in-  
 graph): TK521-5538  
 Acoustical engineering:  
 Acoustical properties of  
 (Engineering material  
 Acoustics, Architectural  
 Acoustics in engineering  
 Acrylic acid (Chemical  
 TP248.A4  
 Acrylic resins (Plastic  
 TP1180.A35  
 Activated sludge (Sewage  
 TD767.7  
 Activated sludge method  
 rent): TD756  
 Adaptive control system  
 engineering): TJ217  
 Additives  
 Cement manufacture: T  
 Food constituent: TX  
 Adhesives  
 chemical technology:  
 Packaging: TS198.3.A3  
 Adobe houses (Building  
 TH4818.A3  
 Adsorption (Chemical or  
 TP156.A35  
 Adulterants and adulter  
 Beverages: TX596-597  
 Food: TX501-595  
 Advertising (Use of air  
 Economic aspects: HF6  
 Advertising cinematogra  
 Advertising photography  
 Aeration  
 Sewage disposal: TD7  
 Water supply: TH458  
 Aerial lines  
 Electric power: TK32  
 Telegraph: TK5452-54  
 Telephone: TK6352  
 Aerial photogrammetry:  
 Aerial photographic sur  
 Aerial photography: TR  
 Road engineering: TE  
 Aerial propellers: TL70  
 Aerial surveys (Road co  
 TE209.5  
 Aerobatics (Airplanes)  
 Aerodromes, see Airpor  
 fields  
 Aerodynamic heating: T  
 Aerodynamics  
 Aeronautics: TJ570-5  
 Engineering: TA358  
 Motor vehicles: TL24  
 Turbomachinery: TJ26  
 Vehicles: TA359  
 Aerodynamics, Hyperson

Aeroelasticity (Aerodynamics): TL574.A37  
 Aerofoils (Aerodynamics): TL574.A4  
 Aerofoils in cascade (Turbines):  
     TJ267.5.C3  
 Aeronautical astronomy: TL586-588.5  
 Aeronautical communication: TL692-694  
 Aeronautical engineering, see Aeronautics  
 Aeronautical navigation: TL586-588.5  
 Aeronautical sports: GV750-770  
 Aeronautics: TL500-777  
     in  
         air warfare: UG630-670  
         art: N8217.A4  
         literature: PN56.A4  
             Collections: PN6071.A4  
             Poetry: PN6110.A2  
             Wit and humor: PN6231.A4  
         marine biology: QH91.57.A4  
         oceanography: GC61  
 Aeronautics, Military: UG630-670  
 Aeronautics, Naval: VG90-95  
 Aeronauts, Balloon: TL620  
 Aeroplanes, see Airplanes  
 Aerosols  
     Chemical technology: TP244.A3  
     Packaging: TS198.A3  
 Aerospace industry: HD9711.5  
 Aerostatics: TL578  
 Aerostation: TL605-668  
 Aerosteam engines: TJ727  
 Aerothermodynamics: TL574.A45  
 Aesthetics  
     Dress: TT507  
     Photography: TR183  
 The aged (Nutrition): TX361.A3  
 Agglomeration, Sonic (Dust removal):  
     TH7695.E6  
 Aggregates (Engineering materials):  
     TA441  
 Agricultural fairs: S551-559  
 Agricultural laborers (Nutrition):  
     TA361.A4  
 Agricultural machinery: TJJ480-1496  
 Agricultural photography: TH739  
 Agriculture, Use of airplanes in:  
     S494.5.A3  
 Ailerons (Airplanes): TL677.A5  
 Air-bearing lift (Aerodynamics): TL574.G7  
 Air buildings (Building construction):  
     TH1099  
 Air compressors (Pneumatic machinery):  
     TJ990-992  
 Air conditioning: TH7687-7688  
     Airplanes: TL681.A5  
     Bakeries: TH7688.B3  
     Factories: TH7688.F2-3  
     Homes: TH7688.H6  
     Motor vehicles: TL271.5  
     Railroads: TF453

Air currents  
 TL557.A5  
 Air curtains  
 TH7683.A  
 Air doors  
 TH7683.A  
 Air-entrained  
 manufact  
 Air filter  
 TH7683.A  
 Air guns  
 Air intake  
 TL709.5  
 Air jets  
 Air meets  
 Airplane  
 Gliders:  
 Air meters  
 TJ1025  
 Air naviga  
 Electron  
 696  
 Air pilot  
 Air pisto  
 Air polluti  
 Air polluti  
 Air polluti  
 Air prehe  
 Air press  
 construc  
 Air pumps  
 Air rescue  
 TL553.8  
 Air resis  
 Air rifles  
 Air safety  
 Air sampli  
 polluti  
 Air sports  
 Airplane  
 Balloon  
 Gliding  
 Kitefly  
 Parachu  
 Racing:  
 Soaring:  
 Air-suppor  
 construc  
 Air traffi  
 Air transp  
 Account  
 Econom  
 Technol  
 Air turbin  
 Air vents  
 Hydronic  
 Steam he  
 Air wash  
 TH7683.  
 Airbrakes

aft carriers: TL725.8  
 aft engines: TL701-709.5  
 mic engines: TL704.1  
 clear aircraft propulsion: TL708-  
 08.3  
 aft exhaust emissions: TD886.7  
 aft landing aids, see Landing aids  
 ronautics)  
 aft radio systems: TL693-696  
 op (Cargo): TL711.57  
 ow (Pneumatic machinery): TJ1025  
 ft pump (Hydraulic machinery): TJ925  
 ne hostesses: TD6073.A5  
 nes: TL720-721  
 inistration and operation: HE9780-  
 789  
 il service: HE6238  
 ted States: HE6496  
 ane cabins: TL681.C3  
 ane flying (Sport): GV758-761  
 ane industry  
 ionic aspects: HD9711  
 hnical aspects: TL724-724.5  
 ane racing: GV759  
 anes: TL670-688  
  
 iveritising: TL722.5  
 griculture: SA94.5.A3  
 xploration: TL721.1  
 ire control: SD387.A3  
 isheries: TL722.2  
 ishing: SK36  
 orestry: SD387.A3  
 overnment use: TL723  
 Airmail: HE6238; HE6496  
 War: UG630-635; VG90-95  
 umunitarian activity: TL722.8  
 ounting: SK36  
 aining: TL722.4  
 ountain climbing: TL721.1  
 ceanography: GC61  
 prospecting: TL722.4  
 whaling: TL722.2  
 ort access: TL725.3.A2  
 ort landing fees: TL725.3.L3  
 ort pavements: TL725.3.P35  
 orts and landing fields: TL725-733  
 onomic aspects: HE9797-9797.5  
 crews (Aeronautics): TL705-707  
 hips: TL650-668  
 r transportation: HE9770.A4  
 agars: TL730.2

Airways (Routes), see  
 landing fields  
 Alabaster (Mineral ind  
 Alarm equipment in bui  
 Alarms, Electric: TK72  
 Albertype (Photomechan  
 TR933  
 Alcohol (Fuel)  
 Chemical technology:  
 Alcohol automobiles: T  
 Alcohol motors (Mechan  
 TJ800  
 Alcoholic beverages: T  
 Adulteration: TX597  
 Bartenders' manuals:  
 Chemical technology:  
 659  
 Cookery: TX726-726.3  
 Alcohols  
 Chemical technology:  
 Fermentation industr  
 Food values: TX560.7  
 Aldehydes (Chemical te  
 TP248.A53  
 Ale (Brewing and multi  
 Algae control by coppe  
 Alkalies  
 Chemical technology:  
 Mining: TN895-897  
 Alkanes (Petroleum ref  
 Alkylation (Petroleum  
 Allanite (Mining engin  
 Allenes (Chemical tech  
 Allocation method (Lin  
 T57.77  
 Allowances (Time study  
 Industrial engineeri  
 Alloys  
 Engineering material  
 Industrial electroch  
 Manufactures: TS650  
 Electroplating: TS  
 Precious metals:  
 Metallography: TN69  
 Alloys, Corrosion-resi  
 Alloys, Heat-resistant  
 resistant alloys  
 Alloys, Iron and steel  
 Metallurgy: TN756-7  
 Alloys, Lightweight:  
 Alphabets  
 Art: TK3600-3640  
 Embroidery: TT773  
 Lettering: T371

Alternating current (Dynamo-electric machinery): TK2825-3828  
 Alternating-current engineering: TK1141-1163  
 Alternating-current generators: TK2761-2765  
 Alternating-current machinery: TK2711-2799  
 Alternating-current motors: TK2781-2789  
 Alternating-current systems: TK3141-3171  
   Electric lighting: TK4304  
 Alternating-current transforming machinery: TK2791-2792  
 Altimeter: TL589.A.6  
   Aeronautical navigation: TL696.H4  
 Altitude flying (Airplanes): TL711.A6  
 Aluminum process (Photography): TP950  
 Aluminum and alloys  
   Aeronautical construction material: TL699.A6  
   Chemical technology: TP245.A4  
   Engineering material: TM480.A6  
   Manufactures: TS554-562  
   Metal finishing: TS694.2  
   Metallography: TM693.A5  
   Metallurgy: TM775  
   Mining: TM490.A5  
   Structural engineering: TA690  
 Aluminum cells (Dynamo-electric machinery): TK2798  
 Aluminum roofing (Building construction): TH2459  
 Aluminum work (Handicrafts): TT242  
 Amalgamation (Gold and silver): TN763  
 Amateur constructors' manuals: TK9900-9971  
 Amateur photography for profit: TH690.2  
 Amateurs' electrical manuals: TK9900-9971  
 Ambury hemp (Textile fiber): TS1544.A5  
 Amber  
   Jewelry work: TS755.A5  
   Mining: TM885  
 Ambrotype (Photographic process): TR370  
 Amino acids (Food constituent): TX553.A5  
 Amino resins (Plastics manufacture): TP1180.A5  
 Aminoplastics (Manufacture): TP1180.A5  
 Ammeters (Electronics): TK331  
 Ammonia (Chemical technology): TP223  
 Ammunition: TS538  
 Ampere-hour meters (Electronics): TK331  
 Amphibians (Seaplanes): TL684.1  
 Amplifiers  
   Computer component: TK7895.A5  
   Electronics: TK7871.2-58  
   Radar: TK6590.A5  
   Radio: TK6565.A55  
   Television: TK6655.A5

Amplifiers: TK7871.58  
 Amplifiers: TK7871.23  
 Amusement m  
 Analog comp  
   Engineering  
   Mathematic  
 Analog-to-d  
   computers  
 Analogs (En  
 Anchors, ba  
 Anchors, Gu  
 Ancient lig  
 Andirons: T  
 Anemometer  
   QC932  
 Angle of in  
 Angles (Eng  
 Angles, Moa  
   TA603  
 Anhydrite (C  
 Aniline dye  
 Animal fats  
   Chemical  
   Manufactu  
 Animal fibre  
   TS1545-15  
 Animal food  
   Butcherin  
   Cookery: S  
   Food valu  
   Inspectio  
   Meat curi  
   Nutrition  
 Animal moto  
   TJ830  
 Animal prod  
   1980  
 Animal wast  
 Animals (Ma  
 Annealing (C  
 Annular gea  
   TJ191  
 Annunciator  
   annunciat  
 Anodic oxid  
   TS694-694  
 Antennas  
   Aeronauti  
   Electroni  
   Radar: TK  
   Radio: TK  
   Televisio  
 Anthracene  
 Anthracite  
 Anti-accele  
   TL697.P7  
 Antibiotics  
   Food cons

cs - Continued  
ervative: TX608.A5  
kout suits (Aeronautics):  
7  
sives, see Corrosion and its  
ion  
e solutions (Chemical technol-  
TF362  
ion devices (Bearings): TJ1071  
l technology: TP245.A6  
urgy: TW799.A6  
TN490.A6  
es  
utics: TL516  
ads: TF16  
es, Industrial, see Industrial  
ology  
t houses  
ecture: NA7860  
uction: TH4820  
eeping: TX957-959  
g  
ountry: HW7287.6  
ion: TX957-959  
ng: TH6515.A6  
ry engineering: TH6057.A6  
(Mining engineering): TN948.A7  
s, Electric, see Electric  
tus  
ce, Unfermented: TP564  
y: TX813.A6  
aluss: TX558.A6  
vation and storage: TX612.A6  
cinematography: TR892-896.5  
dynamics: TA352-356  
fluid dynamics: TA357-359  
geology: TN260  
mathematics (Industrial  
ering): T57-57.95  
mechanics: TA349-360  
mineralogy: TN260  
photography: TR624-835  
powder metallurgy: TS245  
statics: TA351  
e (Decorative needlework): TT779  
ations (Engineering mathematics):  
s  
ry: TX813.A64  
vation and storage: TX612.A65  
s: TD398  
aqueducts: TC764  
s and systems: TK4321-4335  
ting, Electric: TK4311-4335  
ding: TK4660  
logical photography: TR775  
logy, Industrial, see Industrial  
eology  
bridges: TG327-340

Arches  
Building construction:  
Structural engineering:  
Arches, Metal (Bridge eng  
TL410  
Arches, Steel, for mines:  
Architectural acoustics:  
Architectural ceramics:  
Architectural drawing: N  
Architectural engineering  
Wooden buildings: TH11  
Architectural metalwork:  
Gratings: TH2273  
Structural iron and st  
Architectural photography  
Architectural woodwork (c  
construction): TH151-  
Area drains (Building co  
TH6671.C3  
Area measurement (Survey  
Argon (Chemical technolo  
Ariel motorcycle: TI44.8  
Aristotype (Photographic  
Armatures (Generators):  
Army cookery: UC720-755  
Diet for sick soldiers  
Aromatic compounds (Chem  
TF248.A7  
Arsenic  
Chemical technology: T  
Mining: TN490.A8  
Art objects, Photography  
Art of dress: TT507  
Artosian wells (Water su  
Artichokes (Cookery): TX  
Artificial and natural l  
(Photography): TR590-5  
Artificial diamonds: TP8  
Artificial dyes: TP913-9  
Artificial flowers: TT89  
Artificial fruits (Decor  
TT896  
Artificial fuel (Chemica  
TP360  
Artificial gems (Chemica  
TP873-873.5  
Artificial indigo (Chem  
TP924  
Artificial lighting (Puo  
Artificial materials (Ma  
446  
Artificial mineral water  
technology): TP625  
Artificial minerals (Che  
ogy): TP870  
Artificial pearls (Jewel  
TS755.P4  
Artificial recharge of g  
TD404  
Artificial satellite orb  
Artificial satellitea (A  
TL796-798

Economics: RE471.4-9721  
 Engineering: TK5104-5104.2  
 Artificial silk  
   Dyeing: TP402  
   Manufactures: TS1688  
   Textile fiber: TS1544.R3  
   Textile industries: TS1688  
 Artificial stone  
   Building construction: TH451  
   Cement: TP875-885  
   Chemical technology: TF371  
   Granite brick: TF832.G7  
   Sund-line brick: TF832.S2  
 Artificial sweeteners (Effect on food):  
   TX571.S9  
 Artificial ventilation (Building  
   construction): TH7678-7682  
 Artificial wool (Manufactures): TS1635  
 Artistic cinematography: TR892.4  
 Artistic photography: TH640-685  
 Artistic woodwork: NK9600-9699  
 Arts and crafts: TT  
   Boys' worksnops: TT159-160  
   Building trades: TH5011-8581  
   Clothing manufacture: TT490-695  
   Hairdressing: TT950-979  
   Leatherwork: TT290  
   Manual training: TT161-169  
   Mending: TT151  
   Metalworking: TT205-270  
   Models and modelmaking: TT154-154.5  
   Needlework: TT700-829  
   Painting, varnishing, etc.: TT300-382.8  
   Repairing: TT151  
   Woodworking: TT180-200  
 Arts and crafts movement: NK1135-1149  
 Asbestos  
   Aeronautical construction material:  
     TL699.A8  
   Engineering material: TA455.A6  
   Fireproofing material: TH1075  
   Mining engineering: TN930  
   Plastic reinforcement material:  
     TP1177.5.A8  
 Asbestos cement manufacture: TP884.A8  
 Asbestos fiber: TS1549.A7  
 Ascorbic acid  
   Chemical technology: TP248.A8  
   Food constituent: TX553.A8  
 Ash handling (Powerplants): TJ1410  
 Ashes (Municipal refuse): TD797  
 Ashpans (Locomotive): TJ647  
 Ashpits (Railway construction): TF272  
 Asparagus (Preservation and storage):  
   TX612.A7  
 Aspen (Woodpulp industry): TS1176.4.A8  
 Asphalt  
   Engineering material: TA455.A7  
   Flooring material: TH2529.P5  
   Mining engineering: TN853

Petroleum ref.  
 Sidewalks: TE  
 Asphalt concrete  
   Cement manufac  
   Masonry mater.  
 Asphyxiating and  
   on food): TX5  
 Assaying (Mining  
 Assembling machi  
   TJ1317  
 Assembly line p  
   engineering):  
 Assessment of te  
 Astrionics: TH30  
 Astrodynamics:  
 Astronautical ch  
 Astronautical in  
 Astronautics: T  
   in  
     oceanography  
     science: Q18  
 Astronautics and  
 Astronautics as  
 Astronauts: TL78  
   Medical examin  
   Qualifications  
 Astronomical ph  
 Astronomy (Aeron  
 Astronomy in sur  
 Aswân High Dam:  
 Asylums (Fire pr  
   TH9445.A8  
 Asynchronous mot  
   machinery): TH  
 Athletes (Nutrit  
 Atlantic submar  
 Atmospheric entr  
   nautics): TL10  
 Atmospheric rail  
   operation): TH  
 Atmospheric temp  
   meteorology):  
 Atomic bomb shel  
   TH7392.A8  
 Atomic engines  
 Atomic locomotiv  
 Atomic piles, se  
 Atomic power: TH  
   Production of  
 Atomic power ind  
   Economics: HD9  
   Radioactive wa  
   Technology: TH  
 Atomic-powered a  
   propulsion  
 Atomic powerplan  
   Aeronautics: T  
   Production of  
   Space vehicles  
 Atrato Canal rou

control systems (Astronautics):  
 equipment industry: TS2301.A7  
 photography: TR816  
 (Sound systems): TK7881.9  
 (Chemical technology):  
 soldering (Plumbing): TH6691  
 TL715  
 electric machinery: TK2391  
 al engineering: TJ211  
 maintenance (Computers):  
 3  
 cameras: TR260.5  
 check equipment (Computer  
 t): TK7895.A8  
 control  
 ical instruments: TL589.4-5  
 al engineering: TJ212-225  
 m refineries: TF690.3  
 data collection systems  
 on control): TS158.6  
 devices (Control engineering):  
 5  
 drafting: T385  
 load dieputching (Electric  
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